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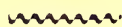
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LONDON, 1862.  
PARIS, 1867.  
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# THE CHEMIST & DRUGGIST SUPPLEMENT.

LONDON: 42 CANNON STREET, E.C.  
SATURDAY, APRIL 8, 1899.

Businesses for Disposal  
Businesses Wanted  
Premises to Let  
Auction Sales

**ALSO EXCHANGE COLUMN.**  
For Bargains see last page of this Supplement.

Partnerships  
Situations Vacant  
Situations Wanted  
Miscellaneous

A Copy of this Supplement is inserted in every number issued of "The Chemist and Druggist."

## CHEMISTS' TRANSFERS.

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1.—£900.—LONDON, N.—Good-class Dispensing and Retail; well-situated, and returning at the rate of £900 yearly, with steady increase; *profits good*; well-fitted shop and good stock; convenient house, on lease; price about £850.

2.—£1,100.—LONDON, N.W.—Good-class Retail and Dispensing Business, capably situated; increasing returns about £1,100 yearly, *profits above the usual rate*; well-fitted shop and good stock; convenient house held on lease; about £900 required.

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4.—£500.—LONDON (Favourite suburb).—Nucleus of good Business, at present returning between £450 and £500 yearly, but capable of a good return by modern trading; good residence; attractive position; price £320; worth attention.

5.—£1,300.—LONDON, W.—Busy locality, close to railway station; old-established concern; returns £1,300; the shop is well-fitted, and has good stock; good-sized house; price about £1,000.

6.—£300.—LONDON (Busy centre), N.—Old-established Business; can be developed by modern trading; present returns about £300; *net profit half*; the house is held on lease; vendor will meet a purchaser liberally; about £270 required.

7.—£1,600.—LONDON (South).—Retail Business; modern or Stores trading; returns about £1,600 yearly; *profit about 20 per cent. net*; well-fitted shop and 9-roomed house and warehouse; terms to be arranged; must be sold.

8.—£1,200.—KENT.—General Retail, situate in the centre of a good-class locality; returns £1,200 yearly; prices moderate; *profit about 20 per cent. net*; with careful management the profit can easily be improved; well-fitted shop and good stock; terms to be arranged, valuation of stock, &c.

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10.—£900.—EASY DISTANCE FROM LONDON.—Retail and Dispensing Business; returns last year over £900; very few patents; *profits exceptionally good*; convenient house; well-fitted shop, and stock in sound condition; about £750 required.

11.—£1,100.—STAFFORDSHIRE.—Retail and Prescribing Business; old-established concern; returns £1,100 yearly; *very profitable*; the shop is well-fitted and attractive, and the stock good and well-selected, the house convenient; vendor will sell at valuation if wished (about £450), and part may remain if required.

12.—£500.—EASTERN COUNTY.—Large town; Retail Business; returns about £500, *with very good profit*; double-fronted well-fitted shop; convenient house, with garden and conservatory; low rental; price about £300, or offer entertained.

13.—£500.—WALES.—Vendor retiring, desires to meet with a Welsh Chemist, to whom an excellent opportunity offers; returns over £500; *profitable*; a good house is held at low rental; about £300 is required, or valuation if desired.

14.—£800.—SOUTH WALES.—Vendor retiring; Business established over 50 years; returns about £800 yearly; capital position; double-fronted shop; good-sized house; very moderate rental; about £600 required.

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**N.B. NO CHARGE TO PURCHASERS.**

TERMS FOR VALUATION ON APPLICATION.

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**SPECIAL NOTICE.**—Messrs. ORRIDGE & CO. have a large number of Businesses for Sale suitable for Gentlemen with small capital, from £200 to £500.

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**J. G. MEDCALF** begs to announce that particulars of the above property for Sale at the White Horse Inn, Market Deeping, on Thursday, the 20th day of April, 1899, at half-past 3 o'clock in the afternoon, may be obtained of Messrs. Phillips, Evans & Co., Solicitors, Stamford; Mr. F. Swift, Market Deeping; and of the Auctioneer, Market Deeping.

## FOR SALE.

3s. 6d. for 50 words or less; 6d. for every 10 words beyond.

**FOR** immediate Sale, owing to decease of Proprietor and shortness of lease, the complete Stock and Fittings of a Chemist's Shop; no reasonable offer refused. Apply, Davies, Gibbins & Co., Derby.

## PARTNERSHIPS.

3s. 6d. for 50 words or less; 6d. for every 10 words beyond.

**WANTED**, a qualified Chemist, with about £400 or £500, to join another who will invest same amount in a Chemist's Business, London or country. Address, 84/3, Office of this Paper.



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£350 returns.—**WILTS.**—Light and very profitable Retail, in pleasant town, vendor not being used to country trade; the business can be much increased; price £250.

£670 returns.—**MIDLANDS.**—Light and increasing Retail, in prosperous town, vendor taking larger business; valuation about £350.

£700 returns.—**SOUTH COAST.**—Wholesale in own preparations and packed goods; young pushing man would do well, as this is an excellent nucleus, and only wants attention to develop well; price £400.

£680 returns.—**SUFFOLK.**—Good-class General Retail in market town; prices good; good house, rent low; returns are increasing; family reasons cause of sale; price £450.

£400 returns.—**MANCHESTER.**—General Light Retail, Dispensing, &c., in growing district; good house; price £250, or valuation.

£1,100 returns.—**LINCOLNSHIRE.**—Very old-established Business in market town; good Family Trade, and some Agricultural and fair Dispensing; large house, good garden, lawn and conservatory; valuation of stock and fixtures about £800.

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F. J. BRETT has numerous inquiries for Businesses of all sizes and classes, and can speedily sell your Business for you.

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1.—**SEASIDE RESORT (South).**—Growing Business, good-class Retail and Dispensing; about 1,200 new prescriptions yearly; returns £925, profits half; price £750; stock and fixtures worth £650.

2.—**WEST OF ENGLAND.**—Light Retail and Prescribing Business; returns £500, capable of increase; good house and premises; rent £30; price £275; is under manager.

3.—**LINCOLNSHIRE (Market Town).**—Cash Retail and Prescribing Business; returns £1,200; handsome corner shop; best position; price £750 or valuation.

4.—**SUFFOLK (Market Town).**—No stores for miles; Retail and Prescribing Business; returns nearly £700; price £400; an exceptionally good opportunity; early sale desired.

5.—**ESSEX (Market Town).**—Partner required in a good Country Business; sole management given; half-share with salary, £300; sell right out for £550.

6.—**GLOUCESTERSHIRE.**—Unopposed Light Country Retail Prescribing and Dispensing Business; returns over £350, net profit £225; good house, low rent; price £650.

7.—**MANCHESTER.**—Light Retail Dispensing and Prescribing Business; handsomely-fitted shop, and well stocked; returns over £600, net profit over £200; price £450, or offer.

8.—**SUFFOLK.**—Unopposed Village Retail and Prescribing Business; rent only £20, good house; returns £450; price £270.

9.—**LONDON, N. (Main Road).**—Light Retail Dispensing and Prescribing Business; returns about £1,250, and net profit £400; good house, moderate rent; price simply valuation of stock and fixtures, about £700.

10.—**LONDON, S.W.**—Main road; good-class Light Retail, Dispensing and Prescribing Business; returns £700; scope for increase; same hands 10 years; price £600, or offer.

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**35 JEWRY ST., FENCHURCH ST., CITY.**

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**YORKSHIRE VILLAGE.**—Mixed Dispensing, with Wines and Spirits; returns £1,050; net profit £300 to £350; nicely fitted and well stocked; price £650. [396.]

**SEASIDE TOWN.**—Owing to mental affliction; for immediate sale, first-class Dispensing and Retail Business; returns £1,260; very profitable; handsome corner, with two good windows; price £1,000, or reasonable offer if made promptly. [391.]

**HOME COUNTIES.**—Light Retail and Prescribing Trade; fine, bold double-fronted shop, near railway-station; good house, with bathroom; returns £1,122; price £900. [283.]

**LONDON, S.E.**—Light Retail, Prescribing; Cash trade; returns £1,200; good prices and several Specialities; long lease; price £900.

**SUFFOLK.**—High-class Business with good sale of own proprietaries; nicely fitted and well stocked shop and good house; returns £554; net profit £216; price £410. [381.]

**SOUTH COAST (Favourite Health Resort).**—First-class Dispensing and Prescribing with some Dental work; old-established; very nicely fitted and heavily stocked; good house; returns £900; price £700. [371.]

**FASHIONABLE SEASIDE TOWN.**—Good-class Prescribing and Dispensing Business; returns £540; net profit £200; price £400; this business can do more than double. [365.]

**LONDON, W.**—Retail, Dispensing, and a little Prescribing; full prices; well fitted and stocked; returns £10 weekly; price valuation of stock and fixtures. [369.]

*Particulars of either of the above free on application.*

**VALUATIONS for Probate or Transfer by a fully qualified member of the Firm. Books Audited, Balance Sheets Prepared, and Chartered Accountants' Certificate given.**

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**Chemists' Transfer Agents and Valuers,**

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**Valuations Conducted with careful attention to detail.**

£1,314 returns.—**SUBURBS, NORTHERN TOWN.**—Good-class Pharmacy; 7,000 prescriptions annually; appointment (optional) which pays rent; good house; separate entrance.

£670 returns.—**MIDLANDS.**—Nicely-fitted shop; good middle-class trade; rent £37; price, valuation, about £350.

£500 returns.—**LANCASHIRE TOWN.**—A really nicely-fitted Pharmacy, with convenient house; rent £25 on 7 years' lease; electric light; mahogany fittings, all up to date; no reasonable offer refused, on account of owner having engagement to accept at once.

Particulars of Businesses of various sizes and localities free on application.

**NO CHARGE TO PURCHASERS.**

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# BUSINESSES FOR DISPOSAL

**3s. 6d. for 50 words or less; 6d. for every 10 words beyond.**

**CARLISLE.**—Dispensing and Prescribing Business; well fitted and stocked; excellent reasons for disposal; returns £500; good profits, might be much increased; price £270 or valuation. Apply, John Reay, Chemist, Carlisle.

**CHESHIRE.**—For immediate Disposal, old-established Retail, Dispensing, and Prescribing Business; good opening for young beginner; rent with dwelling-house, £35; stock, fixtures, and fittings at valuation (about £165). Apply to J. R. Simm & Sons, Estate Agents, 56 Hamilton Square, Birkenhead.

**COUNTY WORCESTERSHIRE.**—Modern Drug Store for Sale, splendidly fitted and stocked, in a thickly-populated town; satisfactory reasons for selling; a bargain; low rent and long lease to premises. 232/74, Office of this Paper.

**DEVONSHIRE.**—Old-established Business in large market town; returns £500, increasing rapidly; low rent; very large garden, well stocked with fruit trees; stock alone without the fixtures worth £300; price £230; a bargain. 86/13, Office of this Paper.

**LINCOLNSHIRE (midst of Agricultural district).**—Genuine Retail and Horse and Cattle Medicine Business for Disposal, doing nearly £700 yearly under manager; scope for increase; bargain for beginner; rent £26 yearly; house; terms easy, to effect speedy sale; £120 or valuation; full investigation invited; profits good. Sims, 1 Alexandra Street, Londesborough Street, Hull.



**LIVERPOOL (Suburb).—**A Light Retail and Dispensing Business for Sale, immediately, in the suburbs of Liverpool; leading thoroughfare; satisfactory reasons for disposal; rent £40; good house; turnover over £600 per annum. Further particulars on application to "Morphia," c/o Evans, Sons & Co., Hanover Street, Liverpool.

**LIVERPOOL.—**Immediate Disposal, a genuine Business in one of the best residential districts; good modern shop and house; low rental; house let off, which reduces rent to one-half; satisfactory reasons for selling; price £300; grand opening for young man. For particulars apply, "Locum," 37 Britannia Avenue, Sefton Park, Liverpool.

**LONDON, N.W.—**Genuine good-class Retail and Dispensing Business in excellent position; returns over £100 per month, and increasing; net profit over 33 per cent.; shop handsomely fitted; good stock; modern house held on long lease; principals only treated with. Apply, X. (87/37), Office of this Paper.

**LONDON SUBURB.—**First-class Retail and Dispensing Business, making a net profit of £600 yearly; owner retiring; good house, very commanding position; price £1,500; full details on receipt of reference. 87/22, Office of this Paper.

**LONDON, S.W.—**To Chemists.—No opposition; capital opportunity for beginner; genuine old-established Business, S.W.; under management; neglected; first reasonable offer for utensils and stock-in-trade. Messrs. Chandler & Sons, 110 St. John's Hill, Clapham Junction, S.W.

**MIDLANDS.—**Good-class Light Retail, in busy thoroughfare of rapidly-growing and important town; the business shows a very satisfactory increase and is capable of much extension; good house; vendor having a much larger concern in view, will sell at valuation, about £350 if taken at once. "Midland" (232/63), Office of this Paper.

**NOTTS (Dukeries).—**£360 returns, increasing; thickly-populated neighbourhood; personal attention required, hitherto been under management of unqualified Juniors; proprietor leaving the trade, desires to sell immediately; good 7-roomed house, private entrance; established 28 years; worth £180, to a cash purchaser £120; capital chance to start cheaply. 77/40, Office of this Paper.

**SOUTH WALES.—**Large seaport town; Retail and Prescribing; returns £500, large scope for increase; price £400; no agents. Apply, "Genuine" (84/29), Office of this Paper.

**WILTS.—**Two Businesses for Sale, not in same town; one returning £500 and the other £350; low rents and good houses; prices £275 and £250 respectively; both well worthy of attention. Apply, Messrs. Berdoo & Co., 35 Jewry Street, Fenchurch Street, E.C.

**ADVERTISER** is leaving the Trade and wishes to Dispose of his Business as soon as possible; it is thoroughly genuine and most profitable, small Retail and Prescribing, with a little Dispensing, in very thickly-populated district, W.; returns £600; fast increasing; changed bands once in 26 years; Extractor would do grand; price £350. "Statim" (85/3), Office of this Paper.

**CHEMIST'S** for immediate Disposal; a good Dispensing and Prescribing Business; 40 years same lands; well fitted and stocked shop; grand position, Portsmouth; good house, garden; death sole cause for selling; lease can be had; rent, £50; price, £375. Stamp, C. Counsel, 33 Shaftesbury Road, Southsea.

**CHEMISTS.—**Retford, Notts.—Old-established Chemist's—Agricultural and Prescribing—Business to be disposed of at once; good Wholesale in own Proprietaries; principal thoroughfare; low price to effect quick sale. Apply, Exors. of the late H. Harvey, 11 Bridgegate, Retford.

**FOR** Sale, with long lease, Chemist's Retail; capable of large increase under competent management. For particulars, apply, from 3 to 5 P.M., to 19 Elgin Avenue, W. No agents.

**FOR** Sale by private treaty, the Business of a Chemist and Druggist (including goodwill), with Gilbey's Wine and Spirit Agency, as carried on by the late Mr. J. G. Sinclair, at 177 and 179 Alfington Road, Nottingham; old-established Business; situated in thickly-populated district. Apply to Messrs. Johnstone & Williams, solicitors, 6 Weekday Cross, Nottingham, where books may be inspected.

**FOR** immediate Disposal, good-class Retail, Dispensing, and Prescribing Business in large town, population 60,000 to 70,000; well stocked and fitted; net profit £200, capable of increase; illness cause of sale; price £385. "Alpha" (87/34), Office of this Paper.

**HANDSOME** modern Pharmacy, in rapidly-increasing and healthy district; established 5 years; rent £60, on lease; good house, cellarage, and stabling; splendid chance for one or two smart men, as present returns should be quickly doubled; reason of sale, owner retiring. Apply, Hugh Edgson, 89 Upton Lane, Forest Gate, Essex.

**MIXED** Cash Retail Business; easy distance from Manchester; last year's returns £560; increase of £104 in four years; price £380, value of stock and fixtures; owner reluctantly compelled to leave district. Reason and fullest particulars, to bona-fide buyers, on application to 83/15, Office of this Paper.

**PROVINCIAL** Wholesale for Disposal; returns between £4,000 and £5,000; has hitherto been carried on in conjunction with Retail; it is situated in centre of a large and increasing population, and has no local opposition; the connection, which is principally among surgeons and confectioners, is a very sound one, and with separate management could easily be doubled; will be sold for value of stock and fixtures, probably about £1,500; this is a splendid opportunity for acquiring the nucleus of a first-rate business; would suit two gentlemen; vendors could arrange a partnership if desired. For further particulars, apply A. (77/35), Office of this Paper.

**RETIRING** owner, who has made a competency in 10 years, wishes to dispose of his very profitable Drug Business, at once; entirely unopposed, with good connection; 6 miles from Manchester; first-class opportunity for beginner with small capital; every investigation invited; about £200 required. Apply (personally, if possible) to "Chemist," 143 Hyde Road, Denton, Manchester.

**SOUND** genuine Retail, occupying one of the most commanding positions in the East of London; very smart shop and comfortable house; last year's returns £600; handsome profits; capable of great increase; capital chance for practical man; valuation of stock and fixtures; about £300 required. 84/10, Office of this Paper.

**TO** Chemists and Druggists.—To be Disposed of by Private Treaty, a valuable and increasing Chemist's Business in one of the leading Suburbs of Leeds; included in this sale are several Proprietary Articles, also the Book-debts and Goodwill of the said Business; present proprietor giving up solely for reasons of health. Full particulars as to Takings, Dispensing, &c., may be had from Messrs. C. W. Provis & Son, 4 Chapel Walks, Manchester, to whom all applications must be made.

**WORTH** Attention.—Increasing Light Retail, Prescribing and Dispensing Business; long lease, low rent; shop nicely fitted and well stocked; returns nearly £800; net profit over £300; about £500 wanted, which is approximate value of stock and fixtures; satisfactory reason for disposal. "Genuinus" (83/26), Office of this Paper.

**WELL-ESTABLISHED** Business for immediate Disposal; good reasons for sale; on main line, 30 miles from London; commanding shop; one minute from station; busy market town; low rent; splendid opportunity for qualified man, or suit beginner; all at £120; part could remain; genuine buyers only. A. E. R. (85/25), Office of this Paper.

**£275.—OLD-ESTABLISHED** Drug Business; few patents; good own proprietaries worth pushing; Dispensing; a little Agricultural trade which could easily be increased; no Dental connection; large house, good accommodation; shop well stocked. Particulars with photos (to be returned), from "Pith" (87/5), Office of this Paper.

## BUSINESSES WANTED.

3s. 6d. for 50 words or less; 6d. for every 10 words beyond.

**ADVERTISER** desires to purchase Business in large village or small town, with returns £400 to £800; South preferred. Please give full particulars in first letter, B. P. (83/12), Office of this Paper.

**WANTED.** a Small Business within 20 miles of London, preferably on Midland or N.W. Railway; returns not so much an object as a nice little house and garden in a healthy locality; or a Partnership in a larger business might be entertained. Particulars to J. McKnight, 290 Euston Road, London.

## APPRENTICESHIPS.

**BRISTOL.—**An Apprentice wanted, indoors, for a brisk Light Retail and Dispensing business; every facility for acquiring a good all-round knowledge; must have passed Preliminary or equivalent. Apply, F. Moss, Kingswood, Bristol.

**A PUBLIC** Analyst has a vacancy for a well-educated youth as Articled Pupil; premium required, which would be reduced in the case of a person having previous knowledge of Chemistry. Apply, P. A. (78/5), Office of this Paper.

**A PRENTICE** wanted, in good-class business; indoors or outdoors. For terms apply, Holmes, Chemist, 39 High Street, Margate.

## SITUATIONS OPEN.

3s. 6d. for 50 words or less; 6d. for every 10 words beyond.

### RETAIL.

**ALDERSHOT.—**Wanted, immediately, a reliable Junior Assistant; knowledge of Photography and Teeth-extracting preferred. Send photo and full particulars to Allen & Lloyd, High Street, Aldershot.

**BATH.—**Competent Working-Assistant (indoors), for good Dispensing and Retail; give age, salary, references, photo, &c.; comfortable Christian home; also an Apprentice or an Improver. Apply, Thomas, Chemist, Belvedere Pharmacy, Bath.

**BATH.—**Wanted, an Assistant, qualified, in a Dispensing business; two kept. Apply, with full particulars of experience, stating age, and salary required (indoors), to Whiston & Co., Chemists, St. James's Square, Bath.

**BIRMINGHAM (near).—**A smart Junior or Improver, for a quick Cash Retail and Prescribing business; close Wednesdays 2 till 6 o'clock; home comforts; one desiring a permanency preferred. State full particulars of experience and salary required, to Cullingford, Hay Mills, Birmingham.

**BIRMINGHAM.—**Assistant required shortly, with view to early succession, in increasing middle-class Retail with Prescribing; gentleman with knowledge of Mechanical Dentistry preferred; bona-fide applicant may rely upon liberal treatment; illness sole cause of sale. 84/34, Office of this Paper.

**BRIGHTON.—**Reliable Junior wanted (indoors), for Light Retail business. Usual particulars to J. R. Marten, English and Foreign Chemist, London Road, Brighton.

**BRIGHTON.—**Wanted, a reliable Assistant, about 21 (indoors), accustomed to good-class trade; good references required. Apply, giving full particulars as to previous experience, age, salary, &c., enclosing photo (which shall be returned), to E. C. Caton, Chemist, Waterloo Street, Brighton.



## SITUATIONS OPEN—cont.

## RETAIL—continued.

**BRISTOL**.—Junior or Improver wanted for brisk Retail; half-holiday weekly from 2 P.M., one evening off at 7 P.M., alternate Sundays, from 8 to 9 P.M. Apply, stating age, height, salary required (indoors), references, and photo, if possible (to be returned), to F. Moss, Chemist, Kingwood, Bristol.

**BRISTOL**.—Wanted, as soon as possible, a Junior Assistant (indoors); send full particulars, salary required, with reference and photo, if convenient. Apply John Evans, Temple Gate, Bristol.

**BRISTOL**.—Wanted, at once, a qualified Assistant (outdoors), in a good-class Dispensing business. Apply, with usual particulars, to W. Pitchford, 54 Cotham Hill, Bristol.

**CAMBERLEY (Surrey)**.—Junior Assistant or Improver for a select business; gentlemanly and neat in work, and with knowledge of Photography preferred; time for study if required. State particulars, with salary required (in or out doors), to Ralph J. Evans, Dispensing Chemist, Camberley.

**CAPE TOWN**.—Qualified Assistant wanted, for first-class Chemist's business, not over 26 years of age, thoroughly steady, quick and accurate Dispenser; second-class passage paid; three years' agreement to be signed; room supplied, but not board; salary, first year £12, second year £13 10s., third year £15 per month. Apply, stating full particulars of experience, to "Medicus" (88/3), Office of this Paper.

**CARDIFF**.—Jesse Williams & Co., Chemists, Cardiff, require a smart Junior. Please state age, height, salary, reference, and usual particulars in first letter.

**CARDIFF**.—Assistant wanted for the Counter; accustomed to Store trade; good Salesman indispensable. Apply (with two references and photo) stating age, height, and salary required (outdoors), Duck's Drug Stores, St. John's Square, Cardiff.

**CHELMSFORD**.—Assistant, about April 12, gentlemanly and of good address; one accustomed to a brisk Retail on Store lines; a good Prescriber and smart Counterman; no Sunday duty, and evening off weekly; comfortable berth to a man able to take occasional charge. Usual particulars with salary (outdoors) to J. Ord Smith, Pharmaceutical Chemist, Chelmsford.

**CHELTENHAM**.—Junior Assistant wanted for Light Retail, Dispensing, and Photographic business. State age, height, references, and salary required, with photo, to Arthur Hill, Chemist, 98 High Street, Cheltenham.

**CHRISTCHURCH**.—Improver or Junior wanted; work light; no Sunday work; time for study. Green, Christchurch, Hants.

**COLCHESTER**.—Assistant, about 23 (indoors), for good-class business; easy hours. Applicants please give full particulars and send photo to H. E. Baker, Chemist, 7 Head Street, Colchester.

**DEVIZES**.—Wanted, a qualified Assistant (indoors), for a good-class Mixed Country business; a junior and an apprentice kept. Apply, stating age, experience, references, and salary required, to T. R. Edwards, The Britton, Devizes.

**DEVON** (large town, near Coast).—Senior qualified Assistant (outdoors); quick Dispenser essential; good-class business, with good Family Retail; to a good man desiring permanency, £140. Upsilon, c/o Evans, Gadd & Co., Exeter.

**DURBAN (Natal)**.—Qualified Assistant wanted; young man, good appearance, quick and accurate Dispenser; salary £150 first year, £165 second, £180 third year; room supplied, but not board; second-class passage paid; 3 years' agreement to be signed. Apply, with full particulars, to E. M., (88/4), Office of this Paper.

**EAST GRINSTEAD**.—A good, experienced, smart hand, capable of Management, where others are kept; progressive salary to the right man; age 25 to 30; outdoors; good Dispensing and general all-round country experience; qualified preferred; also a smart capable Junior, about 22; indoors. Dixon, Chemist, East Grinstead.

**FOLKESTONE**.—An Assistant; qualified; outdoors; one seeking a permanency preferred. Address, with photo, Rawford, 95 Cheriton Road, Folkestone.

**FOR THE EAST**.—Good opening for a thoroughly competent qualified Manager, with first-class City experience, about 27 to 30; must be energetic, active and capable; commencing salary, say £225; free passage out and home, and free quarters; 4 years' agreement. By letter to Dakin Brothers, 87A Leadenhall Street, E.C.

**GUERNSEY**.—Assistant (outdoors); steady, sober, reliable, and capable of taking charge. State age, height, experience, &c., with references, and photo, if possible, to Burgess, Chemist, St. Sampson's, Guernsey.

**HANLEY**.—Wanted, a competent Assistant, about 24; indoors; one accustomed to good Mixed, but Light Retail preferred; may be required to do a little travelling, locally, with Specialities and Packed Goods; an active, reliable man will be well treated. Apply, with usual particulars, references, and photo, to Edmund Jones, Chemist, Hanley.

**HASLINGDEN**.—Wanted, Junior Assistant, for Mixed Retail business. State particulars as to reference and salary (outdoors), C. O. Wain, 8 Church Street, Haslingden.

**HEREFORD**.—Wanted, good Junior in Light Retail and Dispensing business; outdoors; good references indispensable. Apply, with full particulars and photo (to be returned), to W. E. Haines, Chemist, Hereford.

**HERNE BAY**.—Assistant or Junior, about 21, immediately, for Light Retail and Dispensing; must be smart and gentlemanly in appearance. State age, height, reference, salary required, when disengaged, and enclose photo (to be returned), F. H. Neale, 33 and 34 Mortimer Street, Herne Bay.

**HODDESDON**.—A young, active Assistant wanted, for good-class Country business, short distance from London; easy hours; no Sunday duty; half-holiday weekly; in or out doors; time for study if desired. Apply, with photo and all particulars, to Hayllar, Chemist, Hoddesdon, Herts.

**HORNCASTLE**.—Qualified Assistant, capable of managing Branch. Enclose photo, references, and state salary to Carlton & Sons, Chemists, Horncastle.

**HUDDERSFIELD**.—Qualified Assistant wanted to take charge of shop; hours 8.30 to 8, Saturdays 9 P.M., no Sunday duty, half-holiday every other Wednesday. Reply, stating age, references, salary, &c., to H. Pinder, 44 King Street, Huddersfield.

**IPSWICH**.—Wanted, an Assistant, about 21 (outdoors), for a good-class Retail and Dispensing business. Apply, with full particulars as to age, height, salary, references, enclosing photo (to be returned), to J. A. Symonds, 16 Upper Brook Street, Ipswich.

**KENT**.—Junior Assistant (outdoors), accustomed to good-class Country Retail and Dispensing, with knowledge of Photography preferred. Full particulars, enclosing photo, to Charles, c/o W. Edwards & Son, 157 Queen Victoria Street, London.

**LEICESTER**.—Junior (outdoors) required, to assist in Retail and travel in small local Wholesale; mention if any previous experience in this line. State salary and usual particulars, with references, 84/31, Office of this Paper.

**LEIGHTON BUZZARD**.—Wanted, a competent Assistant (outdoors) in a Light Retail and Dispensing business; hours 8 A.M. to 7 P.M. (Thursdays 4 P.M., Saturdays 10 P.M.); no Sunday duty. Please state age, height, experience, references, and salary required to Herington & Son, 16 Market Square, Leighton Buzzard, Beds.

**LIVERPOOL**.—Wanted, at once, a Junior Assistant or Turnover Apprentice, about 19, in a Light Retail and Dispensing business; time allowed for recreation and attending School of Pharmacy. Apply, stating age, height, and salary expected, with reference, to Hinkley, Seacombe, Liverpool.

**LIVERPOOL**.—Qualified man wanted, young, energetic, accustomed to middle-class quick Cash trade, Dispensing, Prescribing, &c.; thoroughly reliable, and good Counterman; hours 9 to 10, half-day weekly, alternate Sundays. Apply, with full particulars, experience, wages, height, &c., and photo (which will be returned), to W. M. (84/28), Office of this Paper.

**LANELLY**.—Wanted, an experienced Junior Assistant; reliable Dispenser; indoors; Welsh indispensable. State age, reference, &c., to J. Wade, Chemist, Llanelly.

**LONDON, N.E.**—Junior, indoors (salary £26), or Apprentice (small premium, to be returned as salary); good living, comfortable home, &c.; one night off weekly; three hours' duty every other Sunday; old-established business; references, &c., required. Apply, R. S., 224 Brick Lane, Bethnal Green Road, N.E.

**LONDON, W.**—Wanted, qualified Assistant (outdoors), for Dispensing and Retail. Apply, W. C. Jones & Co., 23 Bayswater Terrace, W.

**LONDON, S.W.**—Wanted, April 17, a competent, trustworthy Assistant (qualified), for a good-class Dispensing and Retail business; outdoors. E. Wavell, 144 Victoria Street, S.W.

**LONDON, S.W.**—Wanted, at once, a reliable Junior Assistant, used to a good-class Dispensing business; easy hours; salary £30 (indoors). W. F. Garry, Chemist, 9 Tulse Hill, Brixton, London, S.W.

**LONDON, N.**—Junior; a smart young man just out of apprenticeship; if with Tooth-extracting knowledge preferred; salary £26 year, increasing. State age, height, if photo sent will return, also reference, to Morris, Chemist, West Green, South Tottenham, London, N.

**LONDON, W.**—Wanted, an experienced and energetic Assistant, accustomed to good-class business, as Senior for front counter; outdoors; three kept. Apply to Gould & Co., 456 Oxford Street, W.

**LONDON, W.**—Junior Assistant wanted (indoors), aged 21 to 25; must be quick and reliable. State full particulars as to salary required, experience, &c., and when at liberty, Lyon's Drug Stores, 372 Harrow Road, W.

**LONDON, N.W.**—Junior Assistant required for good-class business. State age, height, and salary required, send photo (which will be returned), and references, Conway & Rutter, 109 Kilburn High Road.

**LONDON, E.**—Wanted, a young qualified Assistant, married preferred, to reside on premises; good terms to a reliable and trustworthy man; wanted also a Junior Assistant, accustomed to putting up stock, for Margate; outdoors. Apply, Vause's Drug Stores, 285 Mile End Road, London.

**LONDON, N.W.**—Junior or Improver; about 20; indoors; good Dispensing and Light Retail experience, and comfortable home; reasonable hours. Apply personally, or by photo and usual particulars, to Perfect, Chemist, Harlesden, N.W.

**LONDON, S.E.**—Wanted, a competent trustworthy Assistant (qualified preferred), accustomed to Dispensing. E. Clarke, 145 Stanstead Road, Forest Hill.

**LONDON, S.W.**—Junior or Turnover; indoors; quick and industrious; good character. State experience and salary required, C. Lowe & Co., Surbiton, S.W.



**LONDON, E.**—Manager (qualified), good Counterman, knowledge of Photography preferred, for Branch shop just opening. State particulars, terms, &c., in first letter; to commence duty April 18. Apply by letter to Samuel Cooper (Limited), Chemists, Barking.

**LONDON.**—Wanted, immediately, qualified gentleman, about 24 years, single, to take charge of Retail; to "find" himself; one room found. Apply, before 11 or after 7, to 606 Harrow Road, W.

**LONDON, S.W.**—Assistant; good Counterman and Window-dresser. The Sloane Pharmacy Stores (Limited), 19 King's Road, Sloane Square, after 7 o'clock.

**LONDON, W.**—Wanted, at once, a qualified Assistant, about 23; good Dispenser and used to good-class business; indoors. Whitmore Baker 238 Elgin Avenue, Maida Vale, W.

**LONDON, S.E.**—Wanted, at once, a smart, obliging Junior (outdoors), for Clapham district. Apply personally, or send usual particulars, to R. Banbury, 390 Walworth Road, S.E.

**LONDON, S.E.**—Qualified Assistant, chiefly for Dispensing; quick and accurate; outdoors. Jewell & Co., 32 Church Road, Upper Norwood, S.E.

**LONDON, W.**—Wanted, an Assistant for April 12; must be quick and accurate Dispenser; about 24. State usual particulars and salary required, Squire & Co., 22 High Street, Notting Hill, London, W.

**LONDON, S.W.**—Wanted, a qualified Assistant, used to good-class Store business; must be quick and accurate. Apply, personally if possible, 62 Hill Road, Wimbledon, S.W.

**LONDON, W.**—Qualified Assistant, about 23, required April 12; indoors. Apply, Mr. S. W. Ord, 3 Hanover Street, Regent Street, W.

**LONDON, S.W.**—A smart, qualified Assistant, with a view to management; a good salary, prospects, share in profits; preference will be given to a married man who has had all-round experience in a good-class quick cash business. Apply, Howard & Co. (Limited), 25 Hill Street, Richmond, S.W.

**LONDON.**—At once, qualified and experienced Assistant, speaking French; not less than 24; accustomed to good-class business, and desiring permanency; indoors. Apply, with fullest particulars, to G. Jozeau, 49 Haymarket, London, S.W.

**LONDON, S.E.**—Wanted, a Part-time Assistant (indoors), near three schools; good references required. Reply, with full particulars, or personally preferred, to C. Bunker, 136 Great Dover Street, S.E. One other assistant kept.

**LONDON, S.W.**—Assistant wanted, near end of month, over 21, with experience in Dispensing; good-class modern Retail and Dispensing business; comfortable berth. Write or call, "Pharmacy," 801 Fulham Road, S.W.

**LONDON, W.**—Wanted immediately, smart Assistant for front counter; outdoors. S. F. Goss (Limited), 460 Oxford Street, W.

**LONDON.**—Outdoors; a qualified Manager, for a Branch; one Junior retained; in addition to salary a commission is allowed on proprietaries. Please apply personally, or by letter, to Blackham, 675 Holloway Road, Upper Holloway, N.

**LONDON, S.W.**—A qualified Dispenser, where three assistants are kept. Amore & Co., 173 Sloane Street, S.W.

**LONDON.**—Unqualified Assistant required at once, for good-class Cash business in London. Apply, giving usual particulars as to references, &c., salary required, and enclose photo, to "Vichy," c/o Wright, Layman & Umney, 50 Southwark Street, S.E.

**LONDON, S.E.**—Wanted at once, Junior or Improver; excellent opportunity for improvement. Apply, Brindley Grice, Ph. Chemist, Rosendale Road, West Dulwich.

**LONDON, W. (outdoor).**—Smart, up-to-date Assistant, for good-class modern business; must be accurate Dispenser (certificated preferred); time allowed for attending lectures, and full engagement for suitable man when qualified. State usual particulars, salary, and photo, 87/30, Office of this Paper.

**LONDON, S.E.**—Wanted, a good unqualified Junior, for Ready-money Prescribing and Dispensing business (indoors); time allowed for study if required; must be a good salesman. State age, height, salary required, when disengaged, to Mack, Store Chemist, Penge, London, S.E.

**LONDON, N.W.**—In or out doors, competent Assistant, about 22; must be well up in modern Cash Pharmacy and possess a thorough knowledge of Photographic trade; liberal salary and commission to a suitable man. Apply, Z. (233/23), Office of this Paper.

**LONDON, N.E.**—Messrs. A. P. Barnard & Son, 309 Hackney Road, London, N.E., have a vacancy for a Junior; one accustomed to a London suburban or middle-class country trade, just out of his apprenticeship, preferred; two kept; good opportunity to gain experience; salary £30 to commence (indoors). State when disengaged, references, &c.

**LOWESTOFT.**—Assistant, under 25, for good-class Retail and Dispensing. Apply, with usual particulars, to Coleman, Chemist, South Lowestoft.

**PENARTH.**—Smart Junior required for good-class Light Retail; must understand Photographic trade. Apply, with full usual particulars, and enclose photo, if convenient, to F. Millward, Cash Chemist, Penarth, Glam. (Applicants not answered in 3 days respectfully declined.)

**PLYMOUTH.**—An energetic and reliable Assistant wanted; one seeking a permanency preferred; indoors, and moderate hours; qualification not compulsory. H. T. Netten, Manor Street, Plymouth.

**POOLE.**—Junior Assistant (indoors), for good-class Light Retail, Dispensing, and Prescribing business; Extractor; half-holiday weekly. Apply, stating age, height, salary, references, and photo (to be returned), to H. Ayre (late Pomeroy), The Poole Pharmacy, Poole.

**PORTISHEAD.**—Junior Assistant; good Stockkeeper and Dispenser. State age, experience, and salary required, also photo and references, to Frowl, Chemist, Portishead.

**ROMFORD.**—Wanted, on or before April 18, Junior accustomed to good-class and Mixed Country business; abstairs and Photographer preferred. Send particulars and photo, Lasham, Pharmacist, Romford.

**ROTHERHAM.**—Qualified Assistant; must be good Counterman, &c. Apply, J. Birch & Co. (Limited), Rotherham.

**RUSHDEN.**—Wanted, Junior Assistant; indoors; hours 8 till 8, Thursdays 8 till 2; no Sunday duties; knowledge of Photography preferred, but not necessary. Apply, stating age, height, references, salary required, enclosing photo, if convenient (to be returned), to W. Wilkerson, Chemist, Rushden, R.S.O.

**RYDE, I.W.**—An Assistant, about 24 years of age, accustomed to good-class Retail and Dispensing. Apply, stating age, height, salary, and references, to Tenison Smith, Ryde, I.W.

**SIDCUP.**—Reliable Junior, used to Dispensing business; knowledge of Photography preferred, but not essential. References, salary required, &c., to A. W. Hansou, High Street, Sidcup.

**SLOUGH.**—Senior Assistant wanted, at once; indoors; reasonable hours; £60 to capable man. Griffith & Walden, Dispensing Chemists.

**SOMERCOTES.**—Junior (indoors), not under 20; whole day allowed weekly; hours 8 to 3, Fridays and Saturdays 10 p.m.; no Sunday duty; good Salesman to push own Specialities; Extractor preferred; very little heavy trade; post-office. Apply, giving age and references, to G. H. W. Booth, Post-office, Somercotes, Derbyshire.

**SOMERSET.**—Wanted, at once, good Junior Assistant; outdoors; high-class Dispensing and Retail; need not be qualified, but a London experience preferred; part of duties to dispense for a Surgeon. Apply, stating age, salary asked, with reference and photo, Sage, Chemist, Frome.

**STAFFORD.**—Wanted, a Junior Assistant, from 19 to 20, for good-class General Retail and Dispensing; outdoors. State age, height, and salary required, and enclose photo, J. Marson & Son, Stafford.

**SUTTON.**—Wanted, a Junior Assistant, about 22; indoors; two kept. Personal interview desirable; write first, Utton Blyth, 21 High Street, Sutton, Surrey.

**S.W. SUBURBS.**—Wanted, a qualified Assistant, competent to take entire charge. Apply, stating age, height, salary required, and references, to 86/34, Office of this Paper.

**WARRINGTON.**—Wanted, at once, qualified Assistant; energetic and steady; indoors. Apply, with usual particulars, Hugh Fairhurst & Co., Pharmaceutical Chemists, Warrington.

**WESTGATE-ON-SEA.**—A qualified Assistant for a high-class Dispensing business; shop large and airy; experience good and hours easy. Apply, with age, height, carte, and reference, to F. R. Bessant, Pharmaceutical Chemist.

**WESTON-SUPER-MARE.**—Qualified Assistant (indoors) for good-class Dispensing business. Send particulars of experience, &c., to John Cooper, Pharmaceutical Chemist, Weston-super-Mare.

**WISBECH.**—Assistant; must be thoroughly competent, and capable of taking charge; qualification not essential; indoors. State salary, &c., and enclose photo, to M. Herrod, Wisbech.

**WOLVERHAMPTON.**—Wanted, a qualified Assistant, for good-class Retail and Dispensing business; salary £60 indoors, or £90 outdoors. Apply, with full particulars, to F. J. Gibson, Chemist, Wolverhampton.

**WORTHING.**—Assistant, qualified and experienced, in good-class trade; seaside; May 1st. Send particulars, with references, to W. Aston, Pharmaceutical Chemist, 21 Montague Street, Worthing.

**A LARGE** Drug Establishment in Dublin, Wholesale and Retail, requires the services of a person to conduct the Commercial department; first-class references both as to character and ability required. Applications, with testimonials, &c., to be sent to 4 Gardiner's Row, Dublin.

**AN** experienced Assistant wanted to work up neglected Country business; willing to act as companion to elderly gentleman, Ph. Chemist, suffering from melancholia; comfortable home; one seeking a permanency. State salary, enclose photo, with reference and full particulars, to "Pharmacist" (232/42), Office of this Paper.

**ASSISTANT** (qualified) required, end of April; £60 (indoors). W. R. Hues, The Malvern Pharmacy, Great Malvern.

**BY** 27th inst. a capable Assistant, to take charge of Branch business in the West-end; must be neat Dispenser and good Counterman, and of obliging and gentlemanly habits. Apply, with usual particulars and enclosing photo if possible, to 84/30, Office of this Paper.

**CHEMIST.**—Required, Assistant-Dispenser, for Store trade; must be duly qualified, aged under 25. Apply, by letter, stating full particulars of previous engagements, age, qualification, and salary required (outdoors, West-end), to "Chemist," Ohas. Tayler & Co.'s Advertisement Offices, 154 to 157 Fleet Street, E.C.

**DISPENSER** wanted by medical man; comfortable berth for smart Junior, with good Dispensing experience; applicants will kindly state age, salary expected, and give references. Address replies to Dr. Hartley, 4 De Pary's Avenue, Bedford.



## SITUATIONS OPEN—cont.

### RETAIL—continued.

**JUNIOR** Assistant wanted immediately; must be good Dispenser; indoors. Write, stating full particulars, 85/20, Office of this Paper.

**MANAGER** (in or out doors) for first-class modern Cash Pharmacy; must be qualified, and possessing good references from last two appointments; salary and commission to a practical up-to-date business man. Apply, first instance, stating fullest particulars of experience, salary expected (in or out), &c., to B. (88/6), Office of this Paper.

**PHARMACEUTICAL** Chemist wanted, to take charge of a Medical Hall in town in South of Ireland. Apply to Cork Chemical and Drug Co. (Limited), Cork.

**QUALIFIED** Dispenser wanted; easy hours; no Sunday duty; outdoors. Apply, by letter, stating age and salary required, to Q. E. P., 136 Queen Victoria Street, E.C.

**QUALIFIED** Senior Assistant wanted, in high-class Dispensing business; two kept; must have had first-class experience. Apply, in first instance by letter, to H., c/o Messrs. Meggeson & Co., Miles Lane, Upper Thames Street, E.C.

**QUALIFIED** Assistant required, married preferred, not over 40, with good experience; probable view to managership. Please give latest reference, together with salary required, enclose photo if possible, to "Radix," c/o Messrs. Baiss Bros., 4 Jewry Street, E.C.

**SEASIDE.**—Junior or Improver in good-class business; easy hours, no heavy trade; with knowledge of Photography preferred. Apply, with usual particulars, to Hutching, Pharmacist, Burnham, Somerset.

**SMART** Assistant, for Counter and Dispensing, wanted. If application is made by letter, kindly enclose photograph; apply, Lewis & Burrows (Limited), 22 Great Portland Street.

**TAYLORS' DRUG CO. (LIM.)**, having recently made further extensions, have vacancies in the provinces for a few smart qualified and unqualified Assistants. Apply, with full particulars, sending photo, if possible, to the Secretary, 3, 5, and 7 Guildford Street, Leeds.

**WANTED**, immediately, Junior Assistant; indoors; must have been accustomed to good-class trade. Apply, with full particulars, and enclose carte if convenient, to be returned (Welsh not necessary), 33 Broad Street, Welshpool.

**WANTED**, immediately, a Junior; good character indispensable; would be treated as one of the family; assistants usually stay years; a knowledge of Welsh and hills trade would be deemed an advantage. Apply, A. E. Evans, Chemist, Brynmawr, R.S.O.

**WANTED**, a registered Chemist, to manage a Branch shop, Light Retail, in pleasant position; suit an elderly married man; small house attached; abstainer preferred; good references required. Full particulars, age, salary required, &c., to B. Waterhouse (Limited), Chemists, 30 Sheffield Moor, Sheffield.

**WANTED**, Assistant used to good-class Country business; must be good Dispenser and Counterman. E. P. Minett, Pharmaceutical Chemist, Stansted, Essex.

**WANTED**, active Junior (outdoors), about 20, for pushing Retail business; must be quick and reliable, and a good Counterman. Apply, stating age, height, experience, reference, and salary required, enclosing photo, to J. & J. Thompson & Co. (Limited), 192 Manchester Street, Oldham.

**WANTED**, a Junior Assistant in a Light Retail and Dispensing business. Address, stating age, reference, and salary required (indoors), "Cocaine," c/o Messrs. Evans, Sons & Co., Hanover Street, Liverpool.

**WANTED**, at once, smart Junior Assistant, indoors, for first-class Cash business, N.W.; preference given to one who has practical knowledge of the Photographic trade; liberal salary and commission to a suitable man. Apply, stating fullest particulars of age, experience, salary expected, &c., to "Manager," 265 Finchley Road, South Hampstead.

**WANTED**, an Assistant; must be able to do Mechanical Dentistry. State full particulars, in first instance, to "Dens" (84/8), Office of this Paper.

**WANTED**, unqualified Assistant for Mixed Country business, with knowledge of Agricultural Specialities, and capable of travelling one or two days a week; must be steady and obliging. State wages and references in first letter, to "Lancashire" (86/29), Office of this Paper.

### BURNLEY UNION.

**WANTED**, a Dispenser and Medical Bookkeeper for the Infirmary of the Burnley Union Workhouse, at a salary at the rate of £80 per annum.

Application forms may be obtained from the undersigned, on receipt of stamped and addressed foolscap envelope.

The last day on which applications will be received is Wednesday, the 12th day of April, 1899.

Union Offices, Burnley,  
24th March, 1899.

By Order.

J. S. HORN,  
Clerk to the Guardians.

### WHOLESALE.

**ANALYST.**—Required in the Analytical Department of a large Manufacturing firm, near London, a capable Assistant, with experience in examination of Drugs, Chemicals, and Manufactured Pharmaceutical Products, qualitatively and quantitatively. Apply, by letter, giving full experience, age, salary required, &c., to D. E. H., c/o T. Dixon's Advertisement Offices, 195 Oxford Street, W.

**ANY** Chemist wishing to further the interests of a reliable and intelligent Light Porter, may hear of a suitable opening in a Manufacturing business on applying to F. C. S., c/o Street & Co., 30 Cornhill, E.C.

**EXPORT** Dry Counter.—Wanted, an Assistant who has had a good experience in this department. State age, experience, and salary required, "Prinns" (232/26), Office of this Paper.

**IN** the Research, Analytical, and Manufacturing Laboratories of a prominent firm of Manufacturing Chemists are vacancies for well-qualified gentlemen; candidates must furnish full particulars as to age, qualifications, and experience, and state salary required. Address, "Chemist," c/o Messrs. Street & Co., 30 Cornhill, E.C.

**INVOICE** Clerk. Write, stating age and experience, to W., c/o Messrs. Rowse & Son, 31 Cheapside, E.C.

**INVOICE** Clerk wanted; must write a good hand, be quick at figures, and thoroughly understand the nomenclature of the trade; one who has had some Export experience preferred. State age, experience, and salary required, to "Optimus" (232/25), Office of this Paper.

**JUNIOR** Assistant required, at Wet Counter, by Wholesale Drug house in City; good opening for smart, intelligent youth; salary 20s. per week to begin. Replies, giving age, previous experience, and references, to 88/5, Office of this Paper.

**RELIABLE** man, accustomed to making Pharmaceutical and Perfumery Preparations. Apply, giving full particulars, to "Toilet," (231/21), Office of this Paper.

**TRAVELLERS** Wanted in the Provinces to push a good article, for which there is already a great demand, and could easily be worked along with other goods in which they may be travelling; commission only; those with an established connection and good references alone need apply. Address letters to D. D., c/o Messrs. R. F. White & Son, 33 Fleet Street, London, E.C.

**VACANCIES** for Laboratory hands and Light Porters in a Manufacturing business. Address, with full particulars of age, experience, and wages expected, to "Lab," c/o Street & Co., 30 Cornhill, E.C.

**WANTED**, an Analytical Chemist, of exceptionally high and proved ability and accuracy, with good experience in testing Medicinal Chemicals, to take up the position of Chief Analyst at the works of a leading London firm of Manufacturing Chemists; a gentleman who has taken University degrees preferred. Address, stating age, qualifications, and experience, to "Analyst," c/o Messrs. Markby, Stewart & Co., Solicitors, 57 Coleman Street, London, E.C.

**WANTED**, a qualified Chemist for Laboratory work; must be thoroughly experienced in the manufacture of all Pharmaceutical Preparations. Apply, stating age, experience, salary required, &c., to the Managing Secretary, General Apothecaries' Company, 49 Berners Street, London, W.

**WANTED**, throughout the United Kingdom, by a high-class Perfumery house, Commission Travellers who have a good connection with the Wholesale Grocers, Stores and Chemists. Write G. R., c/o Reynell & Son, 44 Chancery Lane, W.C.

**WANTED**, for Provincial Laboratory, a qualified Chemist; must be accustomed to manufacture of up-to-date Pharmaceutical preparations. Apply, stating age, experience, and salary required, to "Salol" (232/28), Office of this Paper.

## SITUATIONS WANTED

1s. for 12 words or less; 6d. for every 6 words beyond.

### RETAIL.

**TEMPORARY** or otherwise; experienced; 27. Williams, 129 Lark Lane, Liverpool.

**EVENINGS** from 6 o'clock; Dispensing or Counter. Collins, 510 Hornsey Road, N.

**LOCUM**; 29; experienced; highest references. "Beta" (87/25), Office of this Paper.

**BRANCH** Manager or Assistant; 30; married; qualified. 84/38, Office of this Paper.

**L.T.** (48); town or country; qualified. Baker, 65 Leverton Street, London, N.W.

**MANAGER**; qualified; London; exceptional experience; 32. 87/28, Office of this Paper.

**JUNIOR**; 22; 6½ years' experience; disengaged; outdoors. Golden, Norwood, March, Cambs.

**ASSISTANT-MANAGER**; 28; smart; 12 years' experience. 31 Market Street, Huddersfield.

**LOCUM.**—By day or week; qualified; disengaged. G., 54 Calcott Road, Brondesbury, London.

**LOCUM**; qualified; 24; highest references; disengaged. Alex. Bate, Sutton, Warrington, Cheshire.

**ASSISTANT**; 24; tall; good Store experience; at liberty. "Radix" (84/21), Office of this Paper.

**ASSISTANT**; 22; part-time; Leeds preferred; disengaged Easter. R., c/o Moulton, Chemist, Bingley.

**DISPENSER** to Surgeon; 21; abstainer; references; beginning of May. B. (85/29), Office of this Paper.



**W**HOLE or Part Time; outdoors; 38; experienced. "Statim," 19 Tunis Road, Shepherd's Bush, W.

**A**SSISTANT; 22; tall; London and provincial experience. "Rhei," 13 Bow Street, Guisborough, Yorks.

**J**UNIOR (21), 5½ years' experience, requires outdoor London Dispensing berth. Page, 732 Old Kent Road, S.E.

**L**OCUM or Manager; qualified; aged 25; good-class experience. "Chemist," 64 Regent Road, Blackpool.

**L**OCUM or Traveller; unqualified; 37; highest possible references. Z., "Sunnyside," Tarring, West Worthing.

**C**OUNTERMAN; unqualified; Store trade; aged 30. W. L., 5 Montpelier Place, Brompton Road, S.W.

**P**RACTICAL, competent, qualified Locum-tenens or Manager; middle-aged. "Chemist," Witherley, Atherstone.

**A**BOUT 4 evenings; Extractor, Photography; 24. "Student," 11 Sandwell Mansions, West End Lane, N.W.

**I**SLE OF MAN.—As Manager, or elsewhere; all-round man; would purchase. "Chemist," Laxey Post Office (Insular).

**A**SSISTANT; unqualified; 23; 7 years' experience; Midlands preferred. "Dominus" (84/27), Office of this Paper.

**P**ART-TIME engagement by Minor Student in London; good experience and references. D. A. Bryan, Holywell.

**B**RANCH Manager; 29; married; thoroughly experienced; highest references. "Nux" (87/24), Office of this Paper.

**J**UNIOR; aged 23; 5½ years' experience; outdoor; time for study. Arkle, 125 Union Street, Stonehouse, Plymouth.

**P**ART-TIME; good London Experience and references; 27; disengaged 20th. J. H. G., 289 New King's Road, S.W.

**A**SSISTANT; 21; 5½ years' experience Photography; London or South Coast preferred. 87/13, Office of this Paper.

**A**SSISTANT; qualified; aged 29; 5 ft. 10 in.; speaking French and Italian; disengaged. Apply, 73/2, Office of this Paper.

**J**UNIOR; 21; outdoor; London; 6 years' experience; good London references. Davies, 319 Romford Road, Forest Gate, E.

**L**OCUM-TENENS; qualified; London district; outdoor; experienced. "Chemist," Hampden House, Phoenix Street, N.W.

**A**SSISTANT, tall, aged 30, requires situation; Wholesale or Retail; good references. L., 93 Castleland Street, Barry Dock, S.W.

**A**SSISTANT; 25; outdoor; permanency; good references; Photography, &c. Sugden, Oak View, Baildon Road, Baildon, Yorks.

**M**ANAGER (qualified), with view to very early succession; Scotland preferred; highest references given. 82/12, Office of this Paper.

**M**INOR Student desires part-time engagement in London; Medical practitioner; S.E. district preferred. Mogford, Tiverton, Devon.

**M**ANAGER; qualified; 33; single; Extractor, Photography; highest references; North or Midlands preferred. 83/25, Office of this Paper.

**E**NGAGEMENT required as Locum or Part-time, or evenings and Saturdays; Chemist or Surgeon. "Chemist," 16 King Street, N.W.

**A**S Assistant or Branch Manager; outdoor; tall; aged 27; disengaged in May; 18 months' reference. T., 34 Broad Oak Street, Nottingham.

**L**EEDS.—Wanted, Part-time situation in shop, or as Dispenser to a doctor until July examination. "Velox," Leeds College of Pharmacy, Leeds.

**M**ANAGER or Senior; qualified; 16 years' first-class experience in London and provinces; disengaged. A. R. (85/37), Office of this Paper.

**J**UNIOR; 20; height, 5 ft. 5½ in.; good experience in Dispensing business; disengaged. R. Alexander, c/o John Evans, Temple Gate, Bristol.

**M**ANAGER, Assistant, Locum; 29; qualified; 13½ years' all-round experience; disengaged. A., 67 Stockton Street, Moss Side, Manchester.

**A**SSISTANT; thoroughly experienced; disengaged; well recommended; in or out doors. Chas. Lane, Northend, Henley-on-Thames.

**A**T liberty, unqualified abstainer; 35; single; Mixed; experienced Locum, Branch and Counterman. "Chemicus," 42 Vine Street, Uxbridge.

**W**ANTED, in May, Evening Dispensership; London Doctor preferred; steady, experienced; excellent references. 83/5, Office of this Paper.

**J**UNIOR; unqualified; tall, dark; 22; 4½ years' country, 2 years' London experience; City or West preferred; good references. 84/40, Office of this Paper.

**M**ANAGER; 35; qualified; Store and West-end experience; knowledge of Photography; disengaged; Extractor, Prescriber. 87/20, Office of this Paper.

**A**SSISTANT; aged 22; height 5 ft. 8 in.; good references; Manchester or district preferred. J. R. G. Hudson, c/o J. W. Adamson, Chemist, Oolwyn Bay.

**T**EMPORARY Assistant; many years' experience in London and Country; disengaged after the 10th inst. T. Blunt, 54 Weltje Road, Ravenscourt Park, W.

**M**ANAGER, Surgeon's or Hospital Dispenser; qualified; quick Dispenser, Extractor; personal interview. "Disengaged," 3 Keswick Terrace, Earlsfield, S.W.

**P**ARIS or Switzerland.—English Assistant; 25; qualified; speaking French fluently; first-class London experience. D. S., Pharmacie Campan, Biarritz, France.

**M**ANAGER, Assistant, or Locum; 30; married; good Extractor, Prescriber, and Dispenser. Send full particulars, Jones, Tany Castell, Rhydyfelin, Aberystwyth.

**A**S Assistant, Manager, or Dispenser, in London or South of England; first-class experience; highest references; aged 31; height, 5 ft. 9 in.; at liberty April 12; outdoors preferred. "Radix," Herne Hill Pharmacy, London, S.E.

**M**ANAGER, Locum, or responsible position; 30 years' good experience, Chemist and Dentist; married; abstainer; disengaged; first-class references; London permanency preferred. Turner, 71 Sussex Road, Upper Holloway, N.

**L**IVERPOOL DISTRICT.—Situation as Manager wanted, or Dispenser; 16 years' experience in all branches of trade; Prescriber, Extractor; abstainer; gentlemanly appearance; married. "Chemist," 2 Cranbourne Road, Wavertree, Liverpool.

## WHOLESALE.

**T**RAVELLER, Chemist; good connection, town, Midlands, and West of England. X. Y. Z., 39 Balham Hill, S.W.

**W**HOLESALE.—Situation desired; 7 years' experience; aged 25; good references. 84/6, Office of this Paper.

**C**LERK desires re-engagement in Wholesale Drug office; aged 39; good experience and references. 87/33, Office of this Paper.

**A**S Traveller or Junior Representative to a good firm, by smart young man; experienced Drug trade; interview London. Address, 87/23, Office of this Paper.

**M**ATRICULATION, Lond., &c., Prelim.—Improver or Junior in Manufacturing or Analytical; indoors preferred. C. Lane, c/o 41 Radnor Street, Bradford.

**A**DVERTISER, qualified (25), good address, smart, energetic, highest Retail experience, wishes to travel; permanency. "Advance" (77/30), Office of this Paper.

**W**HOLESALE.—Young man, energetic, requires situation as Wet Counterman; 3 years' experience; also 4 years' practical Retail. W., 7 Vesey Street, Poplar, E.

**R**E-ENGAGEMENT required by gentleman with many years' first-class connection amongst Chemists in South-Eastern and Eastern Counties. "Connection" (87/14), Office of this Paper.

**A**DVERTISER, now head of the Sundries department of one of the first London houses, wishes situation as Country Traveller; 13 years' Wholesale and Retail experience. 87/16, Office of this Paper.

**T**RAVELLER (Country), disengaged; large connection among Chemists, Perfumers, Stores, &c.; has covered greater part of United Kingdom. M. R., c/o Leonard Courton, 185½ Aldersgate Street, City, E.O.

**G**ENTLEMANLY Youth (18) desires situation in Chemical-works, Assayers, &c., Laboratory; good knowledge of Chemistry, practical and theoretical; 4 years' laboratory experience. "Kalium," 1A Upper Vernon Street, W.C.

**P**ERFUMERY, Soap and Sundries.—Gentleman having very good connection in the above trade with Chemist's and Stores in the North of England, desires re-engagement with a first-class London or provincial house, on commission and expenses; excellent references. Address, 78/17, Office of this Paper.

## MISCELLANEOUS.

**R**OOMS (residential), furnished or unfurnished; over Chemist's preferred, where opening for evening Practice exists, London or suburbs; married Dentist requires as above. To save time, please state in first letter fullest particulars and terms, which must be moderate, to "Dentist" (86/1), Office of this Paper.

**D**AISSY (LIMITED), Leeds, will be happy to advertise (at reasonable rates) in Chemists' Lists, &c., &c.

**"PRIMUS" SULPHUR TABLETS.**—1 cwt., 32s.; 2 cwt., 31s.; 5 cwt. 30s., carriage paid. Sulphur and Sarsaparilla same price; samples free. Send 3s. 6d. for 7-lb. box, post free. Christy & Co., Smithfield Laboratory, Curzon Street, Leicester.

**"PREMIER" SULPHUR TABLETS.**—Cheapest in the market and the best; 33s. per cwt., 5-cwt. lots 32s., carriage paid; special quotations for large quantities; samples free on application; Sulphur and Sarsaparilla Tablets at same rates. Tennent & Co., 504 Barking Road, London, E.

**S**HOP-FITTINGS.—Complete wall-fittings, counters, dispensing-screens, counter-cases, desks and perfume-cases, drug-drawers, glass wall-cases, &c.; owing to extensive building alterations great reductions are being made in every department. Philip Josephs & Son, 54 Old Street, London, E.C.



## MISCELLANEOUS—cont.

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**ACCIDENTAL POISONING** prevented by using the Patent Caution Label; this label, having a roughened surface, chemists can readily transform any bottle into a poison-bottle at trifling cost, thereby complying with the recent regulations; sample box containing 100 labels, assorted sizes, post free 1s. Patent Caution Label Company, Upper Hagley Road, Birmingham.

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Three 8-gallon pear-shape carboys with stands, as Maw's list, fig. 1; no reasonable offer refused. REES, Chemist, 98 Bow Road, London, E.

## MISCELLANEOUS.

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Old electric lamps and scrap platinum. P. ROWSELL, 9 Derwent Groves, East Dulwich, London.

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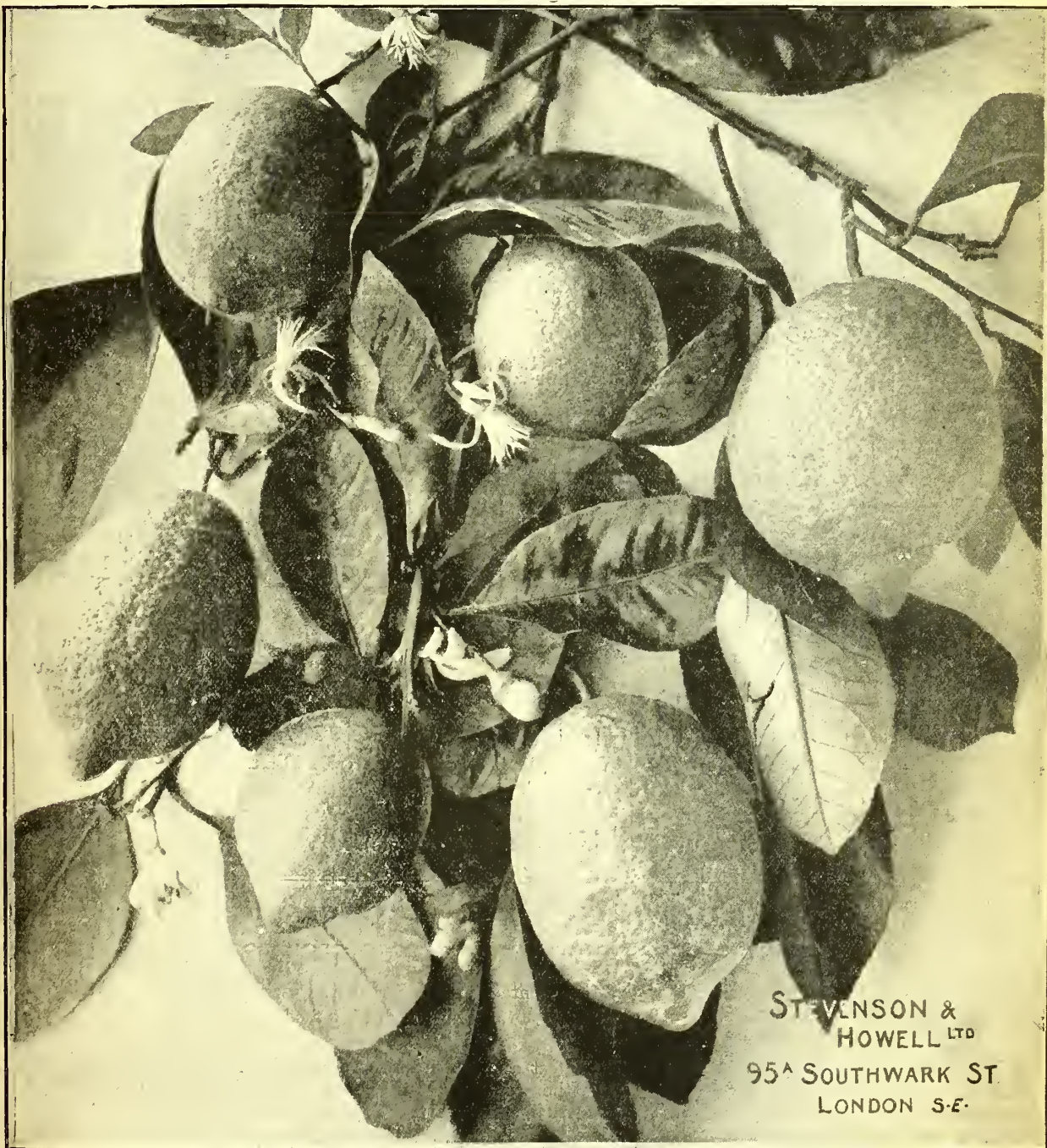
## PERSONAL.

James Hill, formerly chemist-assistant, Portland Road, London, requested beneficially send address to JAMES GRANT, Kelly's Library, Shaftesbury Avenue, London.



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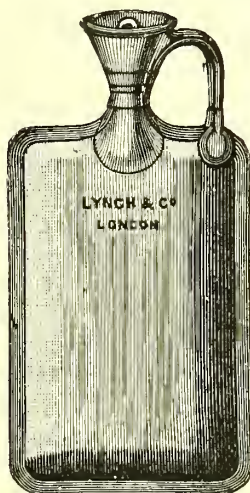
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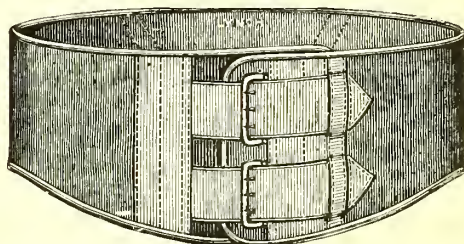
The above illustration represents an Enema which is arranged so that the box will form the reservoir for the fluid to be injected. By being used in this way any possibility of injecting air is avoided, owing to the fact that the suction end of Enema is screwed into bottom of reservoir. It is light and portable, and most suitable for travelling. The Enema is made of the finest quality rubber in one continuous length, and will last for many years with ordinary usage; it is also fitted with our patent non-corroalve glass valves. The reservoir which forms the box is made of iron, enamelled inside and out.

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Highly Concentrated. Perfectly Soluble. Guaranteed Effective. All Tins free.

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Double Strength, mixes 1 Gallon to 50 Gallons Water. Advantageous Prices.

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## ACID (ACETIC)

Beafof &amp; Co.

## ADVERTISING SPECIALITIES

Corson, J. R.

Sharland &amp; Co.

## AERATED &amp; MINRLS

Apollinaris Co.

Barnett &amp; Foster

Burrows, W. J.

Chemists' Aërated Mineral

Waters Association, Ltd.

Davy, Hill &amp; Son, Yates &amp; Hicks

Gills &amp; Son (Ruthin)

Idris &amp; Co. (Lim.)

Ingram &amp; Royle, Lim.

Jewsbury &amp; Brown

Kronthal Water Co. Lim.

Mills &amp; Co. (Bonrne)

Moore &amp; Co.

Roebob Springs, Lim.

Salutaris Water Co.

Smith, W. E., &amp; Co.

Vita-Ore Co., Lim.

Whitwill, Mark, Son &amp; Judge

## AERATED PLANT

See SYPHONS AND ESSENCES)

Barnett &amp; Foster

Bertie-Smith &amp; Co.

Tyrer, Hayward &amp; Co.

## GENCIES ABROAD

Ald, A., &amp; Co.

Byrne, F. J.

Jones, B. Owen, &amp; Co., Lim.

Kempthorne, Prosser &amp; Co.

Lemon, G. B., &amp; Co. (N.Z.)

Peake, A. B., &amp; Co.

Smart &amp; Copley

Smith &amp; Sons

Smyth, A., &amp; Cie. (Paris Ex-

hibition)

Taylor &amp; Colledge

PPARATUS

Bennett, Sons &amp; Shears

Bersand, O., &amp; Co.

Brewster, Smith &amp; Co.

Müller, C. E., &amp; Co.

Paronl, A.

Southall Bros. &amp; Barclay

Woolley, J. Sons &amp; Co.

## AMMONIA

May &amp; Baker, Lim.

Sornbb &amp; Co.

White, A., &amp; Sons

## ANNATTO

Crawshaw, E., &amp; Co.

## BATH SALTS

Tidman &amp; Son, Lim. (See Salt)

## BEESWAX

Bowdler, W. H., &amp; Co.

Evans, Sons &amp; Co.

Leonhard, T.

Lüneburger Wachsbleiche

Idris &amp; Co., Lim.

## BICARB. SODA

Brunner, Mond &amp; Co., Lim.

Howards &amp; Sons

May &amp; Baker, Lim.

## BISMUTH PREP.

Hawlett &amp; Sons

Howards &amp; Sons

May &amp; Baker, Lim.

Tyrer, T., &amp; Co.

White, Alfred, &amp; Son

## BOOKS, &amp;c.

Churchill, J. &amp; A.

Minter's, Dr., Anal. Chem.

Squire's "Companion"

## BOTTLES, POTS, &amp;c.

Ayrton &amp; Saunders

Barnett &amp; Foster

Barrett, B. H.

Bredius, Lim.

Hearns, Lim.

Teascoe &amp; Co.

Johnson &amp; Jorgensen

Kilner Bros.

Lynch &amp; Co., Lim.

Maw, S., Son &amp; Thompson

Poths, H., &amp; Co.

Stupendous Stopper Co., Lim

Toogood, W.

York Glass Co., Lim.

Youldon, E.

BUTTER COLOUR, &amp;c.

Allison, Johnson &amp; Foster,

Lim.

Crawshaw, E., &amp; Co.

## BOXES

Austin &amp; Co. (Cardboard)

Evans, Sons &amp; Co.

Glover, C. H., &amp; Co.

Kent, G. B., &amp; Son

Patent Stopper, Box, and

Stamping Co. (Lim.) (Tin)

Robinson &amp; Sons

Tinplate Decorating Co.

## BRUSHES

Addis, R., &amp; Son

Evans, Sons &amp; Co.

Hovenden &amp; Sons

Kent, G. B., &amp; Sons

Wimpory, E.

## BUNSEN BURNERS

Berend &amp; Co.

## CACHETS

Christy, T., &amp; Co.

Cooper &amp; Co.

Rangers, J., &amp; Son

## CACHOUS

Allen &amp; Hanburys, Lim

Bleasdale &amp; Co., Lim.

Carmichael, M. W.

Denoual, J.

Jackson, T.

Lloyd, T. H., &amp; Co.

Balmes &amp; Co.

Warrick Bros.

## CAMPHOR

Howards &amp; Sons

May &amp; Baker, Lim.

## CAPSULES

Allen &amp; Hanburys, Lim.

Denoual, Jules

Duncan, Flockhart &amp; Co.

Evans, Lescher &amp; Webb

Ferber, H., &amp; Co.

Lloyd, T. Howard, &amp; Co.

Lofthouse &amp; Saltmer

Mason, C. E., &amp; Co.

Warrick Bros.

CARBOLIC ACID

Calvert &amp; Co.

Stevenson, H. E., &amp; Co.

## CARBONIC ACID GAS

Carbonic Acid Gas Co.

## CARRIER TRICYCLES

Singer Cycle Co., Lim.

## CASCARA SAGRADA

Duncan, Flockhart &amp; Co.

Evans, Lescher &amp; Webb

Farris &amp; Co.

Galen Manufacturing Co., Lim.

Harker, Stagg &amp; Morgan

Parke, Davis &amp; Co.

## CASTOR OIL

Hull Oil Mfg. Co., Lim.

Love, H. F., &amp; Co.

United British Castor Oil Co., Lim.

## CHALK, PRECIP.

Levermore, Aug., &amp; Co.

## CHECK TILLS

British Machine Co., Lim.

O'Brien, T.

## CHEMICALS

Boehm, Fredk.

Boehringer, C. F., &amp; Sohne

Brunner, Mond &amp; Co., Lim.

Burgoyne, Burdidge &amp; Co.

Davy, Hill &amp; Son, Yates &amp; Hicks

Evans, Lescher &amp; Webb

Evans, Sons &amp; Co.

Goodall, Backhouse &amp; Co.

Harker, Stagg &amp; Morgan

Kamp &amp; Son

Lofthouse &amp; Saltmer

Moller, Peter

Randall &amp; Son

Smith, T., &amp; H., &amp; Co.

Spratt's Patent (Dog Cakes)

Scott's Emulsion

Southall Bros. &amp; Barclay

Stevenson, H. E., &amp; Co.

Wilkinson &amp; Simpson, Lim.

Wright, Layman &amp; Umny

COLLAPSIBLE TUBES

Christy, T., &amp; Co.

Marshall's Lim.

Vigo, Jules, et Cie.

CHELORODYNE

Davenport (Browne's)

## CHEST PROTECTORS

Liverpool Patent Lint Co.

Maw, S., Son &amp; Thompson

Solport Bros.

Wood, Vincent

## CHLORIDE OF LIME

Hebden, W. C.

Steele, J. C. &amp; Co.

## CHLOROFORM

Duncan, Flockhart &amp; Co.

Macfarlan, J. F., &amp; Co.

Smith, T. &amp; H., &amp; Co.

## COCAINE-HYDRO.

Howards &amp; Sons

## COCA WINE

Burrough, J.

Evans, Lescher &amp; Webb

French Hygienic Society

Holloway Wine Co., Lim.

Stephen Smith &amp; Co., Lim.

## COCOA &amp; CHOCOLAT

Cadbury Bros.

Fry &amp; Sons

Van Houten

Vi-Cocoa (Dr. Tittler)

## COD-LIVER OIL

Allen &amp; Hanburys

Burroughs, Wellcome &amp; Co.

Evans, Lescher &amp; Webb

Evans, Sons &amp; Co.



**COMP. MEDICINES**

Allen & Hanbury  
Burroughs, Wellcome & Co.  
Leo & Co.  
Lloyd, T. Howard, & Co.  
Parke, Davis & Co.  
Wright, Layman & Umney

**CONCENT. LIQUORS**

Bales Bros. & Co.  
Fletcher, Fletcher & Co.  
Lloyd, T. Howard, & Co.  
Robinson B.

**CONFECTIONERY**

Donhill & Co.  
Gibson & Sons  
Gnest, T. & Co.  
Hillabye, Lim.

**CORKS**

Ayrton & Saunders  
Cork Co., Lim.  
Ellis, W., & Co.  
Ringrose & Cobb

**CORN CURES**

Gardner, C. J. Potter & Clarke  
Solport Bros.

**CRUSHED LINSEED**

Mumford, G. S.  
Nall, B. & J.

**DENTIFRICES, &c.**

Beecham, T.  
Beetham, T., & Son  
Hovenden & Sons  
Jewsbury & Brown  
Mason, C. E., & Co.  
Ollapari Co.  
Stevens, P. A.  
Sutton, O., & Co.  
Woods, W. (Arecia Nat)

**DENTISTRY**

Barker, F. H.  
Fentiman, A. G.  
Fentiman, A. J., & Co.  
Spencer & Son

**DISINFECTANTS**

Alison, Johnson & Foster, Lim.  
Calvert, F. C., & Co.  
Chiniosol Hygienic Co., Lim.  
Dunsek Bros.  
Fletcher Bros. & Co.  
Formalin Hygienic Co., Lim.  
Hebden, W. C.  
Joyce's Sanitary Compounds Co.  
Key Bros., Lim.  
Kuhn, B. (Chiniosol, Kresochine)  
Mackey, Mackey & Co.  
Major & Co., Lim.  
May & Baker, Lim.  
Sanitas Co., Lim.  
Steele, J. C., & Co.  
T. Malinson & Hayward  
Tyrer, T., & Co., Lim.  
United Alkali Co., Lim.

**DOG MEDICINES, &c.**

Lloyd, T. Howard, & Co.  
Naldire's Dog Soap  
Spratt's Patent, Lim.

**DRUGGISTS' SUNDRS.**

Ayrton & Saunders  
Barclay & Sons, Lim.  
Benjamin, H. S.  
Bleasdale & Co., Lim.  
Burge, Warren & Ridley  
Cooper, V. M.  
Dailley & Wilkinson  
Dent, C. S., & Co.  
Edgar's Croup Lotion, Lim.  
Evans, Lescher & Webb  
Evans, Sons & Co. (Savars)  
Fordham, W. D., & Sons, Lim.  
Gillespie & Co.  
Hovenden & Sons  
Key Bros., Lim.  
"Leaf" Brand Hat Reviver  
Lorimer & Moyes  
Marshall, Lim.  
Maw, S. Son, & Thompson  
May, Roberts & Co.  
Newbery, F., & Sons  
Parozene Co., Lim.  
Quelch, H. C.  
Roberts & Sheppey  
Sanger & Sons (Schntze & Co.  
Smith, John H., & Co.  
Solport Bros.  
Southall Bros. & Barclay  
Tidman & Son | Toogood, W.  
Wood, Vincent  
Woolf, E.

**DRUG GRINDERS**

Allen, S., & Sons  
Noll, B. & J., & Co., Lim.

**DRUGS**

Bleasdale & Co., Lim.  
Lothouse & Saltmer  
Love, H. F., & Co.  
Nell, R. & J., & Co., Lim. (and  
Spices)  
Oppenheimer, Son & Co.  
Stevenson, H. E., & Co.  
Wyley's, Lim.

**DYES**

Crawshaw, E., & Co.  
Issem Household Dye Co.

**EAU DE COLOGNE**

Farina, J. M.  
Bainebury, S.  
Van Oppen & Co.

**EMBROCATION**

Day & Sons  
Elliman, Sons & Co.  
Harvey & Co.  
Post, A. M., Lim.  
Sanitas Co., Lim.

**ENEMAS**

Barclay & Sons, Lim.  
Evans, Sons & Co.  
Lynch & Co., Lim.  
Sanger & Son | Wood, Vincent  
Woolley, J., Sons & Co., Lim.

**ESSENCES**

Allen & Hanbury, Lim.  
Barnett & Foster  
Burgoyne, Burbridges & Co.  
Bnsh, W. J., & Co.  
Deighton & Smith  
Fletcher, Fletcher & Co.  
Goodall, Backhouse & Co.  
May & Baker, Lim.  
Newball & Mason  
Stevenson & Howell  
Woolley, Sons & Co.

**ESSENTIAL OILS**

Allen, S., & Sons  
Barnett & Foster  
Bush, W. J., & Co.  
Essential Oil Importers and  
Exporters, Lim.  
Evans, Sons & Co.  
Jackson, J., & Co.  
Jeancard, Gazan & Doumin  
London Essence Co.  
May & Baker, Lim.  
Poppelreuter, W.  
Ransom, Wm., & Sons  
Sachse, E., & Co.  
Sanitas Co., Lim.  
Sozio & Andrioli  
Spruway & Cie.  
Stevenson, H. E., & Co.  
Stevenson & Howell  
Treatt, R. C. | Warrick Bros.  
Wilkinson & Simpson, Lim.  
Wright, Layman & Umney

**ETHER**

Duncan, Flockhart & Co.  
Howards & Sons  
Macfarlan, J. F., & Co.  
May & Baker, Lim.  
Tyrer, T., & Co.  
White, A., & Sons  
Wright, Layman & Umney

**EUCALYPTUS OIL**

Drysdale, J. W., & Co.  
Sanitas Co., Lim.  
Sherland & Co.  
Tasmanian Eucalyptus Oil Co.

**EXTRACT MEAT**

Armstrong & Co. | Brand & Co.  
Beaufoy & Co.  
Liebig Co.

**EXTRACTS, FLUID**

Allen & Hanbury  
Allen, G., & Co.  
Bleasdale & Co., Lim.  
Burgoyne, Burbridges & Co.  
Evans, Sons & Co.  
Fletcher, Fletcher & Co.  
Hearon, Squire & Francis  
Lloyd, T. Howard, & Co.  
Parke, Davis & Co.  
Potter & Clarke  
Rensom, W., & Son  
Wilkinson & Simpson, Lim.  
Wright, Layman & Umney

**EXTRACTS, SOLID**

Allen, G., & Co.  
Ransom, W., & Son

**EXTRACTS, VEGETABLE**

Fromme Extract Co.

**FEEDING BOTTLES**

Barclay & Sons, Lim.  
Evans, Sons & Co.  
Gilbertson, H., & Sons  
Hovenden & Sons  
Kilner Bros.  
Lynch & Co., Lim.  
Marriott, E., & Co.  
Maw, S., Son & Thompson  
May, Roberts & Co.  
Youlden, E.

**FILTERS**

Berkfeld Filter Co., Lim.  
Mawson Filter Co.

**FLY CATCHERS**

Alabastine Co. (British), Lim.  
Ford, Shapland & Co.  
Marshall, Lim.  
Mather, W., Lim.  
Smith, J. H., & Co.  
Strong, Christy  
Tunbridge & Wright

**FOOD (Infants' & Invalids')**

Allen & Hanbury  
Beanes, E., & Co.  
Benger's Food  
Bleasdale & Co., Lim.  
Bovril, Lim. | Brand & Co.  
Burgoyne, Burbridges & Co.  
Cromb's Food Co., Lim.  
F. rane Food Co.  
F. romms Extract Co.  
Goodall, Backhouse & Co.  
Hearon, Squire & Francis  
Liebig Co.  
Mullin's Food  
Milk Wine Co., Lim.  
Nestlé, H.  
R. vory & Moore  
Vi-Cocoa (Dr. Tibbles')

**FOOD (for Plants)**

Sharon Chemical Co., Lim.

**GELATINES**

Neggatt, Saml., & Sons, Lim.

**GLUE**

Barclay & Sons, Lim.  
Branor, A.

**GRANULAR PREP.**

Bishop, A., & Sons  
Evans, Gadd & Co.  
Evans, Sons & Co.  
Hearon, Squire & Francis  
Lloyd, T. Howard & Co.  
Lothouse & Saltmer  
Tyrer, T., & Co., Lim.  
Wright, Layman & Umney

**GLYCERINE**

Flank & Co.  
Haller, G., & Co.  
Price's Candle Co., Lim.

**HAIR PREP.**

Alexandre (Shadeline)  
Brooks, Tom  
Chesebrough Co.  
Edwards & Co.  
Hopgood & Hair Cream  
Thiellay, E. H.

**HERB BEER EXTS.**

Newball & Mason  
Potter & Clarke

**HOMOEOPATHIC**

Eppe, J., & Co.  
Leath & Ross  
Munyon's Remedies  
Watson & Wates

**HYPOPHOSPHITES**

Duncan, Flockhart & Co.  
Fellows  
Fletcher, Fletcher & Co.  
Tyrer, T., & Co., Lim.

**INHALERS**

Krone & Sesemann  
Lynch & Co., Lim.  
Munyon's H. H. R. Co.

**INSECTICIDES**

Bleasdale, Lim.  
Fleming's Oil & Chemical Co.

**LIQUOR**

Jackson, T.  
Tunbridge & Wright

**LAUNDRY WATER**

Jackson, J., & Co.  
Sainsbury, S.

**LEMON PEEL, &c.**

Southwell, C., & Co.

**LIME JUICE, &c.**

Idris & Co., Lim.

**LINT**

Burgoyne, Enbridges & Co.  
Christy, T., & Co.  
Liverpool Lint Co.  
Maw, S., Son & Thompson  
Newsome, G. Sons  
Robinson & Sons  
Wood, Vincent

**LIQUORICE**

Dunhill & Co.  
Evans, Gray & Hood ("Solazal")  
Evans, Sons & Co. (Savarin)  
Hillabye, J.  
Jeancard, Gazan & Doumin

**LIQUORS**

Fletcher, Fletcher & Co.  
Lloyd, T. Howard, & Co.  
Oppenheimer, Son & Co., Lim.  
Stevenson, H. E., & Co.

**LOOPAHS**

Solport Bros.

**LOZENGES**

Allen & Hanbury  
Denoual, J.  
Gibson, R., & Sons (Mantra.)  
Guest, T., & Co., Lim.  
Jackson, T.  
Raines & Co.  
Warrick Bros.

**LUNG PRESERVERS**

Zimmer & Co.

**MACHINERY**

Bennett, Sons & Shears, Lim.  
Bera, G.  
Fox, Fultz & Co.  
Gardner, W., & Sons  
Hatrack, J. L., & Co., Lim.  
Melin, C.  
Newman, W. | Pindar, J. W.  
Werner, Pfleiderer & Perkins, Lim.

**MAGNESIA**

American Magnesia Co.  
Bishop, A., & Sons, Lim.  
Bleasdale, W., & Co.  
Henry, T. & W. (Calined)  
Lloyd, T. Howard, & Co.  
Washington Chemical Co.

**MALT EXTRACT, &c.**

Allen & Hanbury  
Burroughs, Wellcome & Co.  
(Kepler's)  
Distilleries Co., Lim.  
Hearon, Squire & Francis  
Parke, Davis & Co.  
Price's Patent Candle Co., Ld.  
Raines & Co.  
Raines, Clark & Co.  
Robinson & Co.

**MARKING INKS**

John Bond's Crystal Palace

**MEDICINE CHESTS**

Burroughs, Wellcome Co.  
Day, Son & Hewitt (Veterinary)  
Day & Sons (Veterinary)

**MERCURIALS**

Howards & Sons  
May & Baker, Lim.  
Tyrer, T., & Co., Lim.

**METH. SPIRIT, &c.**

Boord & Son | Burroughs, J.  
Jones & Co. | Phillips, G., & Co.

**MICROSCOPES**

Darton, F., & Co.  
Ross, Lim.

**MILK**

Hawkesley, T. (Sterilizer)  
Needle, H. (Condensed)  
Lumley, L., & Co. (Sterilized)

**MORPHIA**

Macfarlan, J. F., & Co.  
Smith, T. & H., & Co.

**OILS, VARNISHES**

Calvert Bros. & Co.  
Cooper & Co.  
Finch, Johnson & Co.  
Stern Bros. (White.)

**OINTMENT BASES, &c.**

Burroughs, Wellcome & Co.  
(Lanoline)  
Chesebrough Co. (Vaseline)  
Cooper & Co.  
Lloyd, T. Howard, & Co.  
Stevenson, H. E., & Co.  
Thierry, A.

**OXIDE OF ZINC**

Hubbuck, T., & Son, Lim.  
Stevenson, H. E., & Co.

**PALATINOLIDS**

Lageman, C.  
Oppenheimer, Son & Co., Lim.

**PATENT AGENTS**

Barker, Reginald W.  
Chapman, J. C., & Co.

**PATENT MEDCNS, &c.**

Anglo-American Drug Co., Ld.  
Barclay & Sons, Lim.  
Becham, T. (Pills)  
Benedictine Salve  
Clarke's Blood Mixture  
"Daisy" Headache Powders  
Edwards & Son  
Evans, Lescher & Webb  
Evans, Sons & Co.  
Fenning (Powders)  
Goodall, Backhouse & Co.  
Gny's Tonic  
Holloway (Pills and Oint.)  
Hovenden & Sons  
Lageman, C.  
Lalor (Phosphodyns, &c.)  
May, Roberts & Co.  
Nicolay & Co.  
Post, A. M., Lim.  
Powell, Thomas, Lim.  
Richards, J. M.  
Thierry, A. (Balsam and Oint-  
ment)  
Vogeler, Chas. A., Co.

**PEPPERMINT OIL**

Bush, W. J., & Co.  
Jackson, J., & Co.

**PEPSIN, &c.**

Armour & Co.  
Burroughs, Wellcome & Co.  
Cerebos Limited (Pepsalia)  
Fairchild Bros. & Foster  
Newbery, F., & Sons (Inglavin)  
Parke, Davis & Co.  
Stevenson, H. E., & Co.

**PERFUMERY****FANCY SOAPS**

Allen & Hanbury, Lim.  
Ayrton & Saunders  
Barclay & Sons, Lim.  
Bleasdale, Lim.  
Blondeau & Cie. | Boehm, F.  
Brooks, Tom  
Burgoyne, Burbridges & Co.  
Burroughs, Wellcome & Co.  
Bush, W. J., & Co.  
Carmichael, M. W.  
Chesebrough Co.  
Cook, E., & Co.  
Corbyn, Stacey & Co.  
Evans, Sons & Co.  
Farina, J. M.  
Gillespie, F., & Co.  
Greiff, R. W., & Co.  
Hovenden & Sons  
Jaksak, F., & Co. (Lanoline)  
London Essence Co.  
Lynch & Co., Lim.  
Marshall's, Lim.  
Mason, C. E., & Co.  
Newbery, F., & Sons (Berdoes)  
Pears, A. & F., Lim.  
Potter & Clarke (Sachets)  
Roberts & Sheppey  
Sainsbury, S.  
Sanger, J., & Sons  
Schutze, F., & Co. [Co., Lim.  
Sharp Bros. Soap & Perfumery  
Sinclair, Jas., & Son  
Tidman & Son | Treatt, R. C.  
Van Oppen & Co.  
Vigo, Jules, & Co., Lim.  
West, T. (Ockell's Monia)  
Wright, Layman & Umney

**PEROX. OF HYDR.**

May & Baker, Lim.  
Robbins & Co.  
Sanitas Co., Lim.  
Tyrer, T., & Co., Lim.

**PESSARIES**

Rendell, W. J.

**PTREUM JELLY, &c.**

Allen & Hanbury  
Christy, T., & Co.  
Dee Oil Co., Lim.  
Haller, G., & Co.  
Snowdon, Sons & Co., Ld. (Jelly)  
Stern Bros.

**PILL MACHINES**

Bennett, Sons & Shears  
Pindar, J. W.

**PLASTERS**

Chesebrough Mfg. Co.  
De St. Dalmas, A.  
Evans, Sons & Co.  
Seabury & Johnson  
Solport Bros. (Court)  
Timpon, J., & Co.

**PHARM. PREPS.**

Allen & Hanbury  
Armour & Co. | Bales Bros.  
Barron, Harveys & Co.  
Boehm, Fredk.  
Boehlinger, C. F., & Sohne  
Burgoyne, Burbridges & Co.  
Burroughs, Wellcome & Co.  
Davies, Gibbins & Co.  
Duncan, Flockhart & Co.  
Evans, Gadd & Co.  
Evans, Lescher & Webb  
Evans, Sons & Co.  
Fairchild Bros. & Foster  
Fertig's Co.  
Fletcher, Fletcher & Co.  
Fortuna Hematogen  
Hearon, Squire & Francis  
Hewlett & Son  
Hoffmann, La Roche & Co.  
Howards & Sons  
Lageman, C.  
Lothouse & Saltmer  
Macfarlan, J. F., & Co.  
Mackey, Mackey  
Martindale, W.  
May & Baker, Lim.  
Oppenheimer, Son & Co.  
Parke, Davis & Co.  
Potter & Clarke  
Smith, T. & H., & Co.  
Smith, W. E., & Co.  
Squire & Sons  
Stern Bros.  
Stevenson, H. E., & Co.  
Tyrer, T., & Co.  
"Vasogen"

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Barclay & Sons, Lim.  
Boehm, Fredk.  
Burroughs, Wellcome & Co.  
Butcher, W., & Son  
Darton, F., & Co.  
Edwards, T., & Co.  
Evans, Sons & Co.  
Houghton, G., & Sons  
Lockyer, J. E.  
Lowe, B., & Co.  
Mackey, Mackey & Co.  
Raphael, J., & Co.  
Ross Lim.  
Shew, J. F., & Co.  
Thornton-Pickard Co., Lim.  
Tyrer, T., & Co.  
White, Alfred, & Sons  
Woolley, J., Sons & Co.

**PILLS, Coated, &c.**

Allen & Hanbury, Lim.  
Becham, Thomas  
Bleasdale & Co., Lim.  
Cox, Arthur H., & Co.  
Davies, Gibbins & Co.  
Davy, Hill & Son, Yates &  
Hicks  
Duncan, Flockhart & Co.  
Evans, Gadd & Co.  
Hearon, Squire & Francis  
Holloway, Professor  
Kearsley, C. & G.  
Lloyd, T. Howard, & Co.  
MacKesson & Robbing  
Parke, Davis & Co.  
Powell, Thomas, Lim.  
Scottish Sugar-coated Pills  
Scott's, Dr.  
Wand, S. (Pearl Coated)  
Warner, W. R., & Co. (Coated)  
Wyley, Lim.

**POLISHING**

Benjamin, H. S.  
Bradley & Bourdas (Albatum)  
Fordham, W. B., & Sons, Lim.  
Gillespie & Co.  
Raines & Co. (Stockton),  
Raines & Co. (Stockton),

**PRINTING**

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Bowen Bros.  
Corsan, J. R. (Glass)  
Ford, Shapland & Co.  
Gilbert & Rington, Lim.  
Harris & Waide  
Silverlock, H.  
Thomas & Co.  
Townsend, J.

**QUININE**

Boehlinger, C. F., & Sohne  
Howards & Sons  
Imperial Quinine Co.  
Smith, S., & Co. (Wine  
Zimmer & Co.)

**RENNET**

Duncan, Flockhart & Co.  
Tomlinson & Hayward

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Works, Lim.  
Saccharin Corporation, Lim.

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Smith, T. & H., & Co.

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Goodall, Backhouse & Co.

**SEA SALT**



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Glasgow and West of Scotland  
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Glasgow School (J. Lofthian)  
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Leeds College of Pharmacy  
Liverpool School  
London Hospital  
Manchester Col. of Pharmacy  
Metropolitan Col. of Pharmacy  
National Dental Hospital  
North of England School  
Northern College of Pharmacy  
Queensborough College  
Royal Dispensary (Edinburgh)  
South London School of  
Pharmacy, Lim.  
Westminster College

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Thessier, E.

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Lloyd, A., & Co. (A. S. Lloyd's  
Exuxes)

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Jeyes' Sanitary Compounds Co.  
Sanitas Co., Lim.

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Alstrom, C.  
Ayrton & Saunders  
Bowling & Govier  
Bygrave, J. & W.  
Ellison, F. E., & Co.  
Evans, Sons & Co.  
Josephs, Phillie, & Son  
Maw, S., Son & Thompson  
Mitchell, A.  
Pearall & Sons, Lim.  
Treble, G., & Son  
Yates, W. S.

**SIZE**

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Botwright & Grey  
Darton, F., & Co.  
Laurence, L.  
Raphael, J., & Co.  
Workship Company of Spec-  
tacle Makers

**SPONGES**

Cohen, I. & M.  
Cresswell Bros. & Schmits  
Petersen, M., & Co.

**SOAP**

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Ayrton & Saunders  
Beetham, T., & Son  
Bronnley, H., & Co.  
Calvert, F. C., & Co.  
Cook, E., & Co.  
Cooper & Co.  
Croesfield, J., & Sons, Lim.  
Gibbs, D. & W. (Medicated)  
Hydroxene Co.  
Jeyes' Sanitary Compounds Co.  
Macbenzie's, Dr. (Arsenical)  
Naidine's Dog Soap  
Peacock's Ovaline Soap Co.,  
Lim.  
Pears, A. & F., Lim.  
Sanitas Co., Lim.  
Sharon Chemical Co., Lim.  
Sharp Bros. Soap, &c., Co., Ltd.  
Sinclair, J., & Son  
Tidman & Son  
Vinolia Co., Lim.  
Wright, Layman & Umney

**STARCH**

Hebden, W. C. (Gloss)

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Aymard's Patent Milk Steril-  
izer Co.  
Hawkesley, T.  
Lumley, L., & Co.

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Auto-Measure Kemper  
Barnett & Foster | Melin, C.  
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Stipendium Stopper Co., Lim.

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Domeu Belts Co.  
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Ferrie & Co.  
Galen Manufact'g Co., Lim.  
Hatricks, J. L., & Co., Lim.  
Haywood, J. H.  
Krohne & Sesemann  
Liverpool Patent Lint Co.  
Lynch & Co., Lim.  
Macfarlan, J. F., & Co.  
Manson, R.  
Matto, Lim.  
Maw, S., Son & Thompson  
Oppenheimer, Son & Co., Lim.  
Powell & Barstow  
Quelch, H. C.  
Robinson & Sons  
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Wood, Vincent  
Woodruff, T.

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Macfie & Sons

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British Syphon Co.  
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Wyleys, Lim.

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Jewsbury & Brown  
Maw, S., Son & Thompson  
Parke, Davis & Co.  
Sutton, O., & Co.  
Woods, M. (Areca)

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Chapman, J. C., & Co.

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Vaccine Association (Lymph)

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Ayrton & Saunders  
Barker, F., & Son  
Beetham & Son  
Bnrroughs, Wellcome & Co.  
(Lanoline)  
Croesfield, J., & Sons, Lim.  
Dee Oil Co., Lim.  
Hovenden & Sons  
Lynch & Co., Lim.  
Major & Co., Lim.  
Marshall's, Lim.  
Maw, S., Son & Thompson  
Peacock's Ovaline Soap Co.,  
Lim.  
Quelch, H. C.  
Sanitas Co., Lim.  
Sharon Chemical Co., Lim.  
Sharp Bros. Soap & Perfumery  
Co., Lim.  
Solport Bros.  
Southall Bros. & Barclay  
Squire & Sons  
Tidman & Son, Lim.  
Townsend, J. (Paper)  
Vinolia Co., Lim.

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Judd & Manners  
Orridge & Co.  
Tomlinson, Thos., & Son

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Pavia, F.

**VARNISHES, &c.**

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Finch, Johnson & Co.

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Chesebrough Co.

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Day, Son & Hewitt  
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Elliman, Sons & Co.  
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Sanitas Co., Ltd | Spratt's (Dogs)  
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Fletcher Bros. & Co.  
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Sanitas Co., Lim.  
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Barron, Harveys & Co.  
Bleasdale & Co., Lim.  
Burgoyne, Burdidges & Co.  
Bueh, W. J., & Co.  
Corbyn, Stagg & Co.  
Davies, Gibbins & Co.  
Davy, Hill & Son, Yates & Hicks  
Evans, Gadd & Co.  
Evans, Sons & Co.  
Evans, Leecher & Webb  
Ferris & Co. | Graf, F.  
Goodall, Backhouse & Co.  
Harker, Stagg & Morgan  
Heaton, Squire & Francis  
Hewlett & Son  
Kemp, Wm., & Son  
Lloyd, T. Howard, & Co.  
Lofthouse & Saltmer  
London Essence Co.  
Macfarlan, J. F., & Co.  
Potter & Clarke  
Raines & Co.  
Raines, Clark & Co.  
Smith, B. A., & Co.  
Stevenson, H. E., & Co.  
Taylor & Colledge  
Willows, Frank, Butler &  
Ayscough Thompson  
Woolley, Jas., Sons & Co.  
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Wyleys, Lim.

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BEER, &c.**

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Bowen & McKechnie  
Burrough, J.  
Clark, J.  
Coleman & Co., Lim.  
French Hygienic Society  
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Holloway's Wine Co., Lim.  
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Phillips, G., & Co.  
Robinson, B. (Orange)  
Smith, S., & Co., Lim. (Orange)  
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IN BLUE.

Is Manufactured on scientific principles from the finest cattle reared upon the richest pastures of the world.

For over thirty years the Standard Extract of Beef, it invariably pleases.

Quantities of £5 worth and upwards supplied carriage paid by

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CARRIAGE PAID BOTH WAYS.



Scale	NO CUTTING OF PRICES PERMITTED.		NET TRADE PRICES for Cash with Order. • Cases and Bottles (returnable) charged extra as below.						In Minimum Quantities of	
	Retail prices on application.		Per doz. Quarts	Per doz. Pints	Per doz. Nips	Per doz. Syphons	Per gall. in Case of 2 Jars	Per gall. in Case of 4 Jars		
	London and Suburbs, within radius of Carter, Paterson & Co., who deliver Full Goods and collect Empties free of charge		2/4	1/5	1/3	4/-	7d.	6d.	{ 1 doz. Qts., 2 doz. Pts., 4 doz. Nips, 1 doz. Syphons, 1 Case of 2 1-gall. Jars, 1 Case of 4 1-gall. Jars.	
	Places distant from London									
	Not exceeding 30 miles		2/10	1/11	1/6	4/6	8d.	8d.	{ 3 doz. Qts., 6 doz. Pts., 12 doz. Nips, 3 doz. Syphons, 4 Cases of 2 1-gall. Jars, or 2 Cases of 4 1-gall. Jars.	
A	Over 30 miles	" 80 "	3/1	2/2	1/7	4/6	9d.	9d.		
B	" 80 "	" 130 "	3/4	2/2	1/9	4/6	10d.	10d.	{ 6 doz. Qts., 12 doz. Pts. 16 doz. Nips, 3 doz.	
C	" 130 "	" 180 "	3/7	2/2	1/9	4/6	11d.	11d.	{ 1/1 Syphons, 4 Cases of 2	
D	" 180 "	" 250 "	3/10	2/5	1/9	4/6	1/1	1/1	{ 1-gall. Jars, 2 Cases of 4 1-gall. Jars.	
E	" 250 "	" .. "	4/1	2/8	1/9	4/6	1/3	1/3		

\* Deposit on Cases and Bottles (returnable) charged as follows:—1 doz. Quarts, 3/-; 2 doz. Pints, 4/-; 4 doz. Nips, 7/-; 1 doz. Syphons, 26/-; 3 doz. Quarts, 9/-; 4 doz. Pints, 8/-; 6 doz. Pints, 12/-; Case of 2 1-gall. Jars, 4/6; Case of 4 1-gall. Jars, 9/-. These amounts are refunded when the Empties are returned in good order.

Certain places served by sea are excepted from the above rates, such as Aberdeen, Belfast, Brechin, Cork, Dublin, Dundee, Edinburgh, Forfar, Glasgow, Kildare, Limerick, Londonderry, Montrose, Newbridge, Newcastle-on-Tyne, Perth, St. Andrews, Tipperary, &c., which are supplied at Scale E; Isle of Wight, Jersey, and Guernsey at Scale B; Alderney and Sark at Scale C.

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PARCEL CART &amp; INVALID CARRIAGE MAKERS,

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Special to Shippers and Large Buyers.

Carbolic (Carmine and Mauve Pink Shades),  
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Camphorated Chalk. Finest ingredients.

All the above are guaranteed harmless to the teeth and gums. Put up in tins of 7 lbs., 14 lbs., 28 lbs., 56 lbs., and 112 lbs. net; also in decorated tin boxes to retail at 1s., 6d., and 2d. For samples, prices, and terms, please write to

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# Water.

IN SCREW-STOPPERED BOTTLES.

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**ONE SIZE ONLY.**

*Large size square Bottle, holding 27 oz. fluid.*

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WHOLESALE PRICE	=	=	7s. per dozen.
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By no means unpleasant to the palate.

A very effectual but particularly agreeable aperient, entirely free from any griping action.

Slightly alkaline.

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For the treatment of CHRONIC GASTRIC CATARRH,  
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CONSTIPATION, DIABETES, RENAL CALCULI,  
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Messrs. SCHWEPPE'S LTD. have pleasure in notifying the general public that they have secured the **SOLE AGENCY** for the importation of Kronthal Waters into the United Kingdom. After full enquiry and numerous experiments, Messrs. SCHWEPPE'S LTD. are of the opinion that the Kronthal Natural Mineral Waters are unsurpassed by any other Waters imported, for use as follows, viz. :—

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May be drunk plain, and especially adapted for blending with WINES and SPIRITS, LEMON SQUASHES, FRUIT ESSENCES, CHAMPAGNE and other Cups.

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Most valuable in cases of Gout and Stone.

Effects the Elimination of Uric Acid from the Blood. Laboratory experiments prove that Kronthal (Red Label) is a distinct solvent of Uric Acid and Gouty deposit.

KRONTHAL (Red Label) DISSOLVES SIX TIMES AS MUCH URIC ACID as pure Distilled Water.

RED LABEL ACTS AS A VERY MILD APERIENT.

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Invaluable in Cases of Anæmia and Chlorosis.

Contains Iron in a very valuable, because easily assimilable form.

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Per Case of 25 large bottles,	<b>22/6</b>	.....	Per dozen,	<b>12/-</b>
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„ „ 25 large „	<b>21/-</b>	} Per 10-case lots.		
„ „ 50 small „	<b>32/-</b>			

For net cash.

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# PURE ORANGE WINE

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Outer Gates of South Lambeth Works



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ORANGE WINE (Vin. Aurantii, B.P.),  
COCA WINE, and QUININE WINE.

A Handsomely-printed Brochure will be sent, Post Free, together with Prices and Samples, on application with Trade Card.

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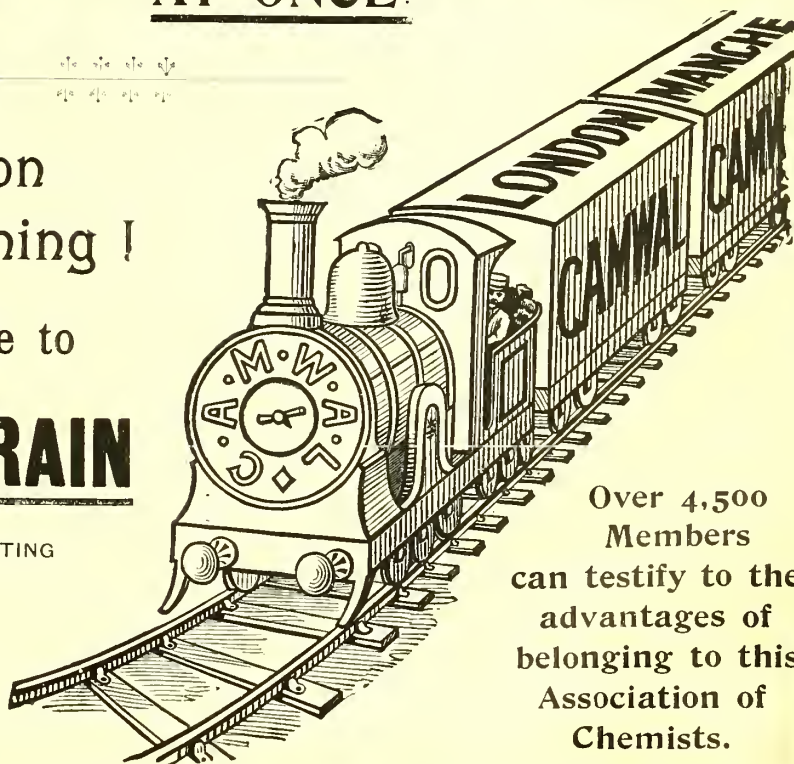
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Association of  
Chemists.



# ROBINSON'S ORIGINAL CONCENTRATED WATERS.

ESTABLISHED 1855.

When diluted in the proportion of one part to forty parts of water at 60° temperature, they faithfully represent the Medicated Waters of the British Pharmacopœia. They are always of uniform strength, and will keep good any length of time in any climate.

<b>Aqua Amygd. Amar. Conc. (U.S.)</b> .. 4/- per lb.	<b>Aqua Cassia Conc.</b> .. 4/- per lb.	<b>Aqua Ment. Virid. Cono.</b> .. 4/- per lb.
" <b>Anethi, Concent.</b> .. 4/- "	" <b>Flor. Aurant.</b> .. 8/6 "	" <b>Pimentæ</b> .. 4/- "
" <b>Anisi</b> .. 4/- "	" <b>Sambuci Cono.</b> .. 8/6 "	" <b>Pulegii</b> .. 4/- "
" <b>Camphoræ</b> .. 4/- "	" <b>Fœniculi Conc.</b> .. 4/- "	" <b>Rosmarini</b> .. 4/- "
" <b>Carui</b> .. 4/- "	" <b>Menth. Pip. Conc.</b> .. 4/- "	" <b>Rosæ</b> .. 8/6 "
" <b>Cinnam. Ver. Conc.</b> .. 8/- "	" <b>Ang. Conc.</b> .. 8/- "	" <b>Virgin</b> .. 10/6 "

The above may be had in ½-lb. or 1-lb. Bottles and upwards, through most of the Wholesale Drug Houses.

Each Bottle has the Inventor's Protection Label over the cork, without which none are genuine.

## SUPERIOR ORANGE WINE (Vin. Aurantii, B.P.)

Samples of any of the above sent free on application from

B. ROBINSON, Distiller and Brewer of British Wines, Church Street, PENDLETON, MANCHESTER

## SYMONS & CO.'S Devonshire Cyder & Wines

**Specially prepared for the Home & Export Trades.**

**BOTTLING AGENTS AND THE TRADE SUPPLIED ON LIBERAL TERMS.**

### CYDER IN WOOD.

	Per Gall.
Imperial Cyder (Specially s. d. prepared)	- 19
Apple and Blossom Cyder	- 16
Champagne Cyder	- 14
Sweet Draught	- 13
Medium Draught	- 13
Superior Dry Draught	- 12
Symonia (Non-Alcoholic)	- 10
Sydrina (Non-Alcoholic)	- 10

Casks charged and allowed for if returned within two months, in good condition, to same address as sent from, and advised by post.

### Terms, Delivery, &c.

A Discount of 2½% will be allowed for Cash with Order. Accounts sent out Monthly.

Cyder, Perry, Symonia, and Sydrina are sent out in Cases containing 3-dozen Quarts, or 4-dozen Pints, and Casks of 14, 20, 30, 40, 60, and 116 Gallons.

Symonia and Sydrina in ½-pints, Cases of 6 dozen.

Sparkling Wines, 1 dozen Large, or 1 dozen Half-Bottles.

Prices include Bottles, but Cases are charged 1/6 per dozen extra, and allowed for if returned Carriage Paid, in good condition, within one month.

Carriage Paid to any Railway Station in England and Wales.

**TRADE DISCOUNTS ON APPLICATION.**



**JNO SYMONS & CO LTD.**  
Tofnes & DEVON,  
& Ratcliff, LONDON E.

### CYDER AND WINES IN BOTTLE.

Bottles Free, and Carriage Paid.	
	Per Doz. Bottles s. d.
Imperial Cyder - (Extra Dry). Gold Foil.	- 10 0
Apple and Blossom Cyder - (Sweet or Dry). Silver Foil.	- 7 6
Champagne Cyder - (Medium Dry). Red Label.	- 6 8
Symonia (Non-Alcoholic) ½-Pts.	8 0
Sydrina (Non-Alcoholic) do.	8 0
Imperial Perry -	- 10 8
2/- extra per Two Dozen Half-Bottles	

### "ROYAL EXCELSIOR" SPARKLING WINES.

Pale Dry Creaming - (Champagne Style).	- 21 0
Devonshire Chablis	- 15 0
Devonshire Hock	- 15 0
Devonshire Moselle - (English Rhine Brand).	- 24 0

3/- extra per Two Dozen Half-Bottles.

Symonia and Sydrina are the best Temperance Drinks of the day, and may be sold by Chemists.

Our Local Bottling Agents can often reduce prices in Bottle by importing in Wood, thus saving the extra Carriage, &c.

### Instructions for Storing, &c.

On receipt of the case of Cyder, unpack, and stand the bottles in an upright position in a cool cellar of from 50 to 55 degrees temperature, to settle down, and return empty cases to us; or, if wanted for immediate use, in a temperature of 60 degrees, when it will get into condition, and will come out an effervescing, delicious drink, healthful and invigorating without being heady. If a dry Cyder is required, keep twelve months or more in bottle. Wines must be laid down.

**FRUIT MILLS, TOTNES, DEVON, ENGLAND.**



# BARNETT & FOSTER

## MANUFACTURERS.

### The "COMPACT"

#### CONTINUOUS ACTION

# Soda-Water Machine

For use with the Liquefied Carbonic Acid Gas.

Specially designed for use where space is an object, and for those having a large retail trade, such as Chemists, Hospitals, Restaurateurs, Hotel Proprietors, &c. They are ready for work immediately, require no fixing, and produce Aerated Waters of the very highest quality at a minimum of cost.

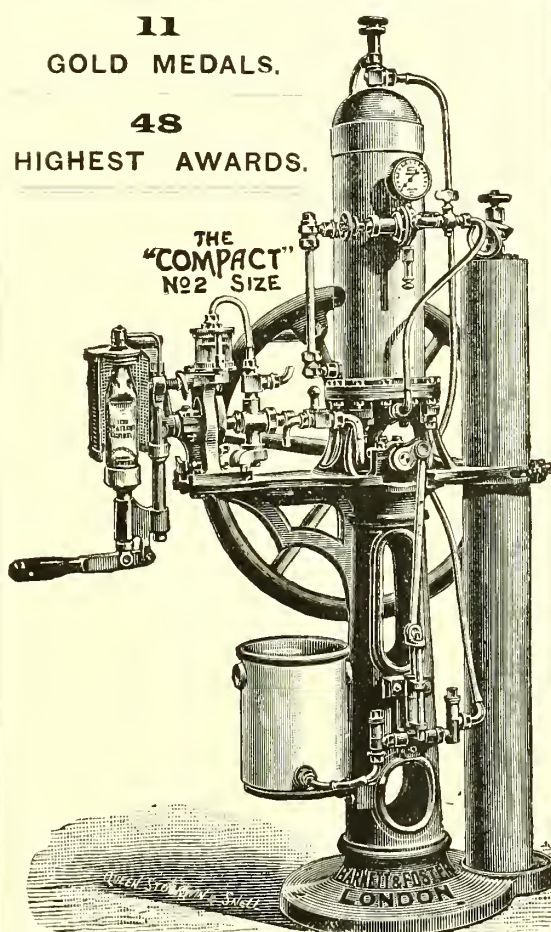
We guarantee to produce a better article with these than any other system adapted for using the Liquefied Gas, and at a lower pressure, thus effecting an immense saving in bottles, and also reducing risk of accidents.

.....  
**NO DANGER.**  
**NO MESS.**  
**PERFECTLY RELIABLE.**  
.....

*In use by  
Leading Chemists in all  
parts of  
the United Kingdom.*

**11**  
**GOLD MEDALS.**

**48**  
**HIGHEST AWARDS.**



**No. 1 Size**, complete with Turnover and Syphon-filling Machine, and fitted with fast and loose Pulleys for driving by Power. Code word *Abbada*. **£60**

*Two Fillers included.*

Producing Capacity by Hand-power 600 dozen per day.

Ditto by Power, 1,200 dozen per day.

**No. 2 Size**, complete with Turnover and Syphon-filling Machine. Code word *Abbafa*. **£48**

*Two Fillers included.*

Producing Capacity by Hand-power 350 dozen per day.

Ditto by Power, 700 dozen per day.

**No. 3 Size**, complete with Turnover or Syphon-filling Machine. Code word with Turnover, *Abbaga*; with Syphon-filler, *Abbaka*. **£33**

Producing Capacity by Hand-power 200 dozen per day.

Syrup Pump fitted to the Turnover Filling-machine on either of above (add "s" to code word), **£2 2s. extra**. If fitted with one Filling-machine only, the two largest Machines are charged **£3** less than above prices.

*Sole Inventors and Manufacturers of the*

## "Niagara" Bottle and the London-made Syphon

**KNOWN ALL OVER THE WORLD.**

.....  
*Illustrated Descriptive Catalogue of every requirement for the Mineral Water Trade on application.*

**Niagara Works, 26<sup>T</sup> EAGLE WHARF ROAD, LONDON, N.**



# TWO \* GOOD \* LINES.

PROTECTED PROFITS 30 PER CENT.

MINIMUM SELLING PRICE.

HALL'S WINE, PER CASE (1 doz.) ... 27/- ... 3/- Per Bottle.

" " " (2 doz.) ... 31/- ... 1/9 "

KEYSTONE BEEF WINE—The ONLY Wine Prepared with The Liebig Co.'s Extract.

" " " PER CASE (1 doz.) 30/- ... 3/3 Per Bottle,

" " " (2 doz.) 34/- ... 2/- "

*Both these Preparations are well Advertised.*

## ATTRACTIVE WINDOW DISPLAYS

SENT FREE AND CARRIAGE PAID.

Handbills, Pamphlets, and other printed matter, with own name and address.

Also ARTISTIC SHOWCARDS and DUMMIES FREE, on application to Proprietors—

### STEPHEN SMITH & CO., LTD., BOW, LONDON, E.

## St. Raphaël Quinquina.

THE MOST WONDERFUL TONIC WINE  
IN THE WORLD.



The ST. RAPHAËL QUINQUINA has the largest sale of any similar Wine in France. For Loss of Appetite, Anæmia Conditions, and Nervous Depression, it is the most wonderful Tonic Wine ever submitted. Apart from its marvellous restorative properties, it is also a pleasant and agreeable Wine, and can be used as a beverage with Mineral Water

*Show Cards, Handbills, and all Advertising Matter supplied free.*

SOLE AGENTS:

**BOWEN & McKECHNIE,**  
Cross Street, FINSBURY, E.C.

## CHEMISTS

Should write us **now** for terms and **Price Lists**. We are large importers of all Foreign Wines, and can show **best Profit** and Value. Good Price Lists, &c., with customer's own name on.

Holloway's Coca Wine and Holloway's Meat & Malt Wine are recognised as the best in quality, price, and get-up (protected). Those who have no **Licence** and desire to move with the times should write us for particulars.

### HOLLOWAY'S WINE CO., LTD.

61 New Oxford St. & Dyott St., LONDON, W.C.



**3** factories for

**CO<sub>2</sub>**

**THE CARBONIC ACID GAS CO.**

**LEA BRIDGE ROAD, CLAPTON, LONDON.**

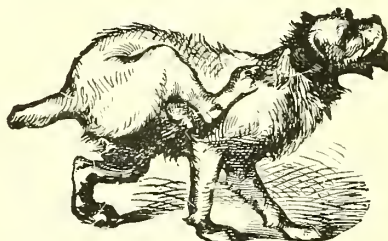
**POLLARD STREET EAST, ANCOATS, MANCHESTER.**

**SKINNERBURN ROAD, LOW ELSWICK, NEWCASTLE-ON-TYNE.**



# NOTICE TO THE TRADE!

## NALDIRE'S PRIZE MEDAL DOG SOAP.



REGISTERED TRADE MARK.

On and after April 4th we intend to advertise a 6d. Tablet of Naldire's Dog Soap, in addition to the 1s. Tablet now sold.

Offices: 3 SPUR STREET,  
LEICESTER SQUARE,  
LONDON, W.C.

WRIGHT & HOLDSWORTH,

Sole Manufacturers and Proprietors.

Chemists will be interested in knowing that our well-known

## "Snowdrift" Petroleum Jellies

conform to the requirements of the 1898 B.P. All our preparations are of uniform high quality, and give the most unqualified satisfaction wherever they are used. Samples will be sent if requested.

Telegrams—"Snowdrift, London."  
Telephone No. 127, Eastern.

A.B.C. Code used.  
4th Edition.

SNOWDON, SONS & CO., Ltd.  
Millwall, London, E.



## THE GREAT AND MARVELLOUS INSECT DESTROYER.

Entirely different from any other Beetle or Flea Powder.

"VIKO" will  
kill Cock-  
roaches.

"VIKO" will  
kill Moths.

"VIKO" will  
kill Fleas.

"VIKO" will  
kill Bugs.

"VIKO" will  
kill Mos-  
quitoes.

"VIKO" will  
kill Ants.

"VIKO" will  
kill all In-  
sects.

"VIKO" will  
not kill  
Dogs.

"VIKO" will  
not kill  
Cats.



"VIKO" as a preventive against Moth is unrivalled. It has no equal. If sprinkled amongst Furs and Clothes instantly destroys any existing Insect Life, and ensures perfect freedom from a return of the pest.

Its effect upon Insect Life is simply marvellous.

REGISTERED.

Sold in 3d., 6d., & 1s. Tins.

SOLE PROPRIETORS—

### TUNBRIDGE & WRIGHT, READING.

Manufacturers of the "World-Famed FLY CEMETERY."

TO PREVENT DISAPPOINTMENT, ORDER EARLY.

The World Famous Sticky Fly Paper.

## 'THE FLY CEMETERY'

FREE FROM POISON.

The Original and by far the Best Sticky Fly Paper in the Market.

Annual Sale—MILLIONS.

BWARE  
OF THE MANY  
SPURIOUS  
IMITATIONS  
IN  
THE MARKET.



STOCK  
A FLY PAPER  
THAT WILL GIVE  
SATISFACTION  
TO YOUR  
CUSTOMERS.

Terms, &c., from

### TUNBRIDGE & WRIGHT, READING.

North of England Depot—4 Gallowgate, Newcastle-on-Tyne.

French Agency—34 Rue St. Martin, Cognac.

**IMPORTANT NOTICE.**—If any of our customers have any over year's stock of our Fly Cemeteries on hand, we shall be pleased to exchange same for fresh goods free of cost.

TELEGRAMS—"FLIES READING."



Early man used to be able to wag his ears as an indication of pleasure or to brush away flies from under his back hair, but as the muscles were not brought into continual use they became rudimentary.

BUT THEY DID NOT KNOW OF  
**FLYODOOMO**  
IN THOSE DAYS!!!

JNO. H. SMITH & CO., NEWARK-ON-TRENT

What the Trade thinks about

## "COBWEBS."

Unsolicited Testimonial.

Mr. J. P. FAST, Chemist, Walsall, wrote :

"Sept. 26th, 1898.

"Please send one gross 'Cobwebs' per return. P.O. 5/- enclosed. This makes my 20th gross this season. Before selling 'Cobwebs' my annual sale of sticky Fly Papers used to be about two gross."

"COBWEBS," 5/- per gross, carriage paid.

CASH MUST ACCOMPANY ORDER.

SAMPLES FREE.

### CHRISTY STRONG, READING.



# DR. MACKENZIE'S ARSENICAL SOAP.

6d. size, 45/- per gross; 1/- tablets, 90/- net cash.

## Dr. Mackenzie's Improved Harmless Complexion Wafers.

2/9 size, 21/- per dozen; 4/6 size, 36/- per dozen.

## Dr. Mackenzie's Face Lotion.

3/6 size, 30/- per dozen bottles; 5/- size, 40/- per dozen.

## "Zenaline" for the Hair.

3/6 size, 27/- per dozen; 5/- size, 36/- per dozen.

## "Bloom of Clematis" Face Powder.

## "Depilatory" & Dr. Mackenzie's Reducing Pills.

### SPECIAL NOTICE.

*With the New Year Dr. Mackenzie's Toilet Specialities are being put up in most artistic boxes, which make them very effective for window exhibition.*

**S. HARVEY, LIMITED, 5 DENMAN STREET, LONDON BRIDGE, S.E.**

**1898 NEW BRITISH PHARMACOPŒIA, 1898,**  
**S.V.M., S.V.R., and WINES.**  
**S.V.R. WRITE FOR PRICES:—** [2]  
**JAMES BURROUGH, Ltd.,**  
 58 o.p. = 90 % Alcohol. | CALE STREET DISTILLERY, CHELSEA LONDON, S.W.

**BOORD & SON,**  
 DISTILLERS. FOREIGN WINE AND SPIRIT MERCHANTS. AND METHYLATORS.  
 ALLHALLOWS' LANE AND BARTHOLOMEW CLOSE, LONDON, E.C.  
 Quotations for S.V.R. Methylated Spirit and Finish on application  
 FINEST ORANGE WINE FOR QUININE.

**S. V. METH.** **JONES & COMPANY,**  
 COPPERFIELD ROAD  
 LONDON, E.  
 LARGEST MAKERS IN THE KINGDOM.

We are prepared to supply METHYLATED SPIRIT in  
 5-gallon quantities at Lowest Prices.

**REDUCTIONS TO LARGE BUYERS.**  
 SAMPLES FREE.




# JEANCARD, GAZAN & DOUMIN

***Distillers and Importers,***

✠  
Distillery at CANNES (France).  
Distillery at KEZANLIK (Bulgaria).

**13 St. Mary Axe,**

**LONDON, E.C.**

✠  
Trade Mark  J.G.D.

Telegrams: "JEANCARD LONDON."

Telephone Number, 1,955, Avenue.

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**WHOLESALE.**

**ESSENTIAL OILS.**

**MUSK, CIVET, OTTO ROSE, AMBERGRIS.**

***VANILLOES—Direct Importation.***

**BLOCK & STICK JUICES.**

**GELATINES (all kinds).**

**SPECIALITIES, FLORAL EXTRACTS, &c.**

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Write for Price List and Samples.

**STOCKS KEPT IN LONDON OF ALL STANDARD QUALITIES.**

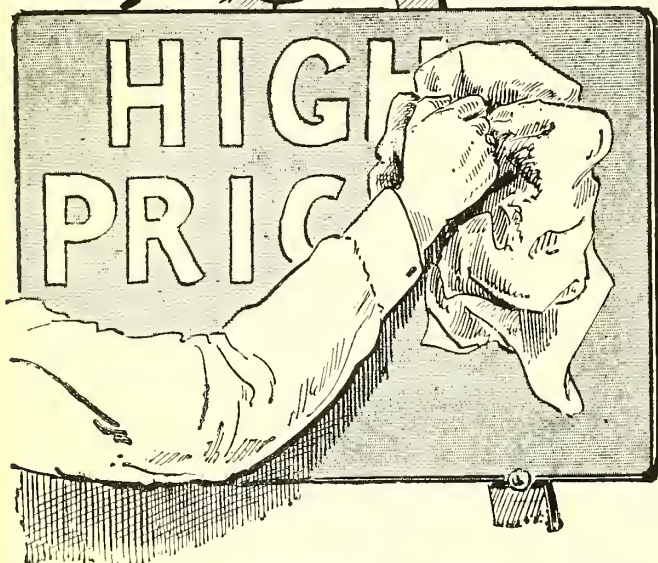
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# KEEN BUYERS

Are those who do not allow themselves to be entrapped by the

*Wiping them out*



**Fictitious Cheapness**  
OF  
**Adulterated Goods**

SOLD BY

**Unscrupulous Dealers.**

.....

**HEADQUARTERS for SOAPMAKERS**

AND

**PERFUMERS since 1880**

— ARE —

**THE ESSENTIAL OIL IMPORTERS  
& EXPORTERS, LTD.,  
LONDON, E.C.,**

AND THEIR

**"Pearl Brand" (REGD.) Specialities**

WHICH ARE NOW SOLD AT

**VERY LOW PRICES**

**CAN SELDOM BE MATCHED & NEVER BE BEATEN.**

NEW LINES FOR CHEMISTS.

## LANCE PERFUMES

See references in the Winter Number of THE CHEMIST AND DRUGGIST,  
January 28th, to the Editorial Notices in

THE QUEEN, ILLUSTRATED LONDON NEWS, BLACK AND WHITE,  
THE GENTLEWOMAN, THE LADIES' PICTORIAL,  
THE WORLD, TRUTH, etc.

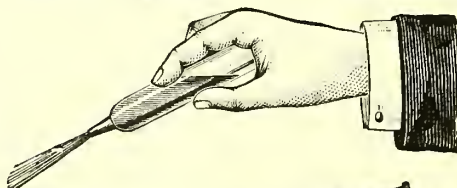
— And also Terms for Competition by Chemists. —

**£20 First Prize, £10 Second Prize, £5 Third Prize.**

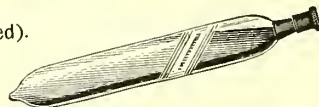
Will be Supplied through Wholesale Firms ONLY to Chemists. For information apply to

SOLE AGENTS for United Kingdom and Colonies (except Canada):

**R. W. Greeff & Co., 20 Eastcheap, London, E.C.**



(Patented).



Makes the Skin Soft and Delicate.

## HYDROXENE



## SOAP



Invaluable for the Nursery and Toilet.

HYDROXENE Co., Old Stratford, STONY STRATFORD.

## BRECKNELL'S

PRIZE  
MEDAL!

Recommended by **SKIN** Unscented,  
Eminent Medical Men. yet  
Sweet as a Rose!

Although low in price, it ranks with high-class  
soaps, and is altogether the best extant for  
producing a Clear and Healthy Skin.

## SOAP.

The longer it is kept the more it improves and increases in value.  
LIBERAL TERMS TO THE TRADE.

**BRECKNELL, TURNER & SONS, LIMITED.**

To Her Majesty, &c., &c.

31 HAYMARKET, LONDON.

ESTABLISHED 1862.





## Martindale's Ozonic Inhaler

Will in future only be supplied stamped, and retail at 1/9, unless ordered without medicament (for dispensing), when it will, as before, retail at 1/- Chemists and others holding stock will kindly affix a 3d. stamp, if without it, to those containing medicament.

### THE NASAL OZONIC INHALER

Will require a 6d. stamp, and will retail at 4/6.

## W. MARTINDALE,

*Pharmaceutical Chemist,*

10 NEW CAVENDISH STREET, LONDON, W.

## SPURWAY & CIE.

*Perfume Manufacturers,*

CANNES-GRASSE, FRANCE.

ESTABLISHED 1820.

GOLD MEDALS—Philadelphia, 1876; Cannes-Grasse, 1893; Nice, 1884.

## FRENCH ESSENTIAL OILS,

PURE OLIVE OILS, POMADES, &c.

SPECIALITY—Finest Quadruple Extracts of imitable and lasting Fragrance.

London Branch—184 SHAFTESBURY AVENUE, W.C.

## OLEA ÆTHEREA SINE TERPENO

HAENSEL'S SPECIALITY SINCE 1876.



LEMON, ORANGE (30 times concentrated), LIMES, Bergamot, Lavender, Bay, Verbena (Citra), Rosemary, Geranium, &c.

London Depot: 19 ST. DUNSTAN'S HILL, E.C.

# SOZIO & ANDRIOLI

Estd. 1757. **GRASSE.**

MANUFACTURERS OF

## RAW MATERIALS

For Perfumers and Soapmakers,

VIZ.:

ESSENTIAL OILS,  
FLORAL WATERS,  
CONCRETE ESSENCES,  
POMADES,  
PERFUMED OILS.

STOCK IN LONDON.

For Samples and Prices apply to the

SOLE WHOLESALE AGENT AND CONSIGNEE—

**FRED<sup>K</sup>. BOEHM,**

16 Jewry Street,

**LONDON, E.C.**



# "OVALINE" SOAP

The Only Soap prepared with

## YOLK OF EGG.

A Profit of **33** per cent.

UNDER THE P.A.T.A.

### WHOLESALE PRICES.

Box of 3 Tablets.

8/- per Dozen Boxes.

12/- " "

16/- " "

### ADVERTISED PRICES.

Per  
Tablet.

4d.

...

6d.

...

8d.

...

Box of  
3 Tablets.

1/-

1/6

2/-

## PEACOCK'S OVALINE SOAP CO.

LIMITED,

203 HIGH HOLBORN, LONDON, W.C.



FACSIMILE OF SHOWCARD.

Carriage Paid on orders of £1 and upwards.

# TOILET SOAPS

"**PEERLESS ERASMIC.**"—Retail, 4d. per tablet.

1 gross, 3/4½ per dozen. 5 gross, 3/4 per dozen.

This Line is subject to 15% bonus at settlement in consideration of adherence to our Non-cutting Scale.

Cash Discounts—Fourteen days, 5%; one month, 2½%.

"**ERASMIC HERB.**"—Retail, 3d. per tablet. 1 gross

2/4½ per dozen. 5 gross, 2/4 per dozen.

## GLYCERINE. Double Distilled, 1260 Sp. Gr. Absolutely Pure.

2d. Bottles ... 18/- per gross. In card boxes of 24 bottles.

4d. " ... 36/- " " " 24 "

8d. " ... 72/- " " " 12 "

Winchester Quart Bottles (bottles included) ... 4/6 each.

Cash Discounts—Fourteen days, 5%; one month, 2½%.

Also in 28-lb. and 56-lb. tins, 5-cwt. and 10-cwt. drums. Prices and terms on application.

## JOS. CROSFIELD & SONS, LTD., WARRINGTON. Estd. 1815.

Every CHEMIST, DRUGGIST, and MANUFACTURER should use

## DAILLEY & WILKINSON'S PLEATED PAPER BOTTLE-CAPS.

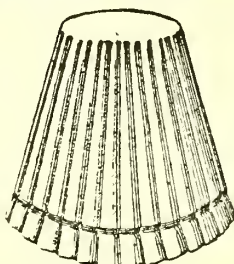
### Great Reduction in Prices.

Nos. 0, 1, 2, 3, 10, 20, 30, 3B, }  
for Phials... } at 5d. per gross.

" 4, 4B, 40 (3 to 6 oz.) ... " 7d. "

" 5, 5B, 50, 5½ (8 to 10 oz.) ... " 8d. "

" 6, 6B, 60 (Pints) ... " 10d. "



Nº 4  
(Machine-made)

### Quality and Colours Guaranteed.

Samples can be had on application through Wholesale Houses, or direct.

## 8 Great Sutton Street, E.C.



# ARMOUR'S LABORATORY PRODUCTS.

## NUTRIENT WINE OF BEEF PEPTONE.



In 8-oz. &amp; 16-oz. Bottles.

An elegant and acceptable form of pre-digested food, with the stimulants of both beef and wine. The familiar and largely used preparations known as Beef, Wine, and Iron are of undoubted value as a tonic, but possessing only the stimulating properties of beef in addition to the wine, are therefore devoid of the very essential constituent which *Armour's Nutrient Wine* possesses—namely, nutrition. Each pint bottle contains, in a pre-digested form, all the nourishment and stimulant of one pound of lean beef.

## VIGORAL.

A Fluid Extract, prepared from *Armour's Solid*



*Extract of Beef*, combined with pure Beef in Powdered form supplying nourishing and muscle-forming constituents, along with stimulating properties.

It is specially designed as a finely-seasoned, nourishing, and stimulating beverage, soluble in hot or cold water.

After a long bicycle ride or any physical exertion, nothing prepares the stomach

so well for a solid meal as

## A CUP OF VIGORAL.

Supplied in 2-oz., 4-oz., 8-oz., & 16-oz. Glass Jars.

**SUPPLIED BY ALL WHOLESALE HOUSES.**

Full supplies of advertising matter, "Carriage Paid," on application to  
**ARMOUR & COMPANY (CHICAGO), LONDON, E.C.**

## F. E. ELLISON, LIMITED

DESIGNERS AND MANUFACTURERS OF  
SHOP FRONTS & FITTINGS



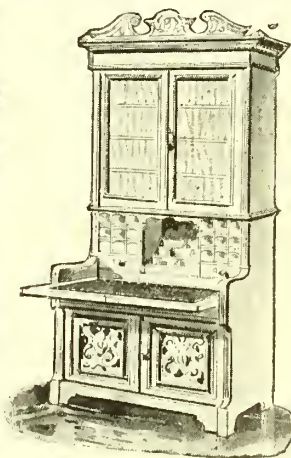
First-class Workmanship & Materials Guaranteed  
at Competitive Prices.  
Drawings, Estimates, and Visits Free.  
DISTANCE NO OBJECT.

**F. E. ELLISON, LTD.**  
Offices: 46 & 47 MERCHANT STREET,  
Works: LEONARD'S PLACE, BROADMEAD, } **BRISTOL.**  
Telegrams—"FITTINGS BRISTOL."

Telephone No. 12009 Avenue, Telegraphic Address—"ALSTROM LONDON."

## C. ALSTROM

Chemist, Druggist,  
SHOP, BANK, & OFFICE FITTER.



Established a  
Quarter of a Century.

ONE OF THE  
LARGEST STOCKS  
IN THE TRADE.

ENQUIRIES PROMPTLY  
ATTENDED TO.

ESTIMATES FREE.

STEAM FACTORY—  
76 GREAT EASTERN STREET  
LONDON, E.C.



## ANALYTICAL REPORT ON STERN'S PARAFFINUM LIQUIDUM, B.P., 1898.

"The sample was odourless, colourless, tasteless, and non-fluorescent. It was free from sulphur compounds, and answered the stringent requirements of the New British Pharmacopœia. The specific gravity at 60° F. was 0.8832. For all practical purposes I am of opinion that this is sufficiently near to the B.P. limit of 0.885, especially as it has been shown that a higher gravity gives a less pure product.

"It is admirably adapted for the numerous uses, both internal and external, for which Liquid Paraffin has been successfully employed.

(Signed) "E. J. MILLARD, F.O.S., F.R.M.S.

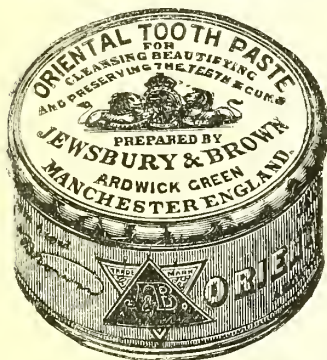
"33 Lothair Road, Finsbury Park, N."

Sole Makers:

Messrs. STERN BROTHERS,

57 Gracechurch Street, E.C.

[1]



## JEWSBURY & BROWN'S Oriental Tooth Paste.

Established over 70 years. Warranted to retain its properties and keep good in any climate. The original and only genuine is manufactured solely by

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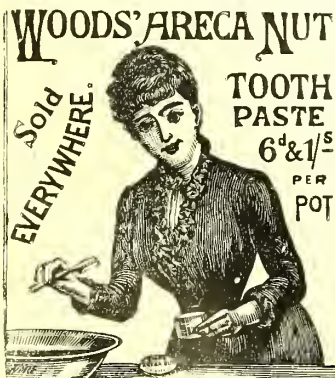
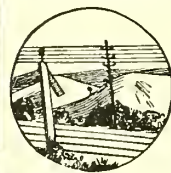
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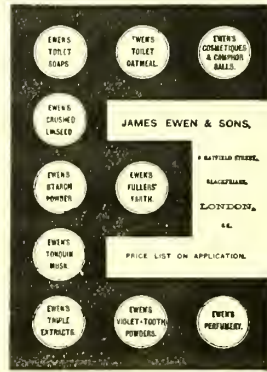


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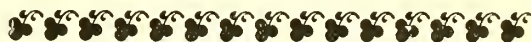
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## READY ON MONDAY.

"PRACTICAL METHODS OF URINE-ANALYSIS," written by a chemist and druggist for chemists and druggists. Price, 1s. 6d.; by post, 1s. 8d. For description of contents see p. 571.

## APPEAL TO THE HOUSE OF LORDS.

On pp. 569-570 will be found the text of an appeal to the House of Lords in regard to the Company-pharmacy Bill, which we have prepared so that chemists may address any peers whom they know on the subject. We shall furnish copies of this appeal to any chemist applying for them by post. Address, Editor of THE CHEMIST AND DRUGGIST, 42 Cannon Street, London, E.C., endorsing the letters "Appeal H. L.," and state the number of copies required. Early application is desirable.

## COLONIAL TRADE.

If there is one thing more certain than another regarding the future export trade of the United Kingdom, it is that the population of our Empire beyond the seas will be our best customers. The national statistics prove that the imperialistic spirit maintains it, and it behoves manufacturers and merchants to encourage it. The encouragement of colonial trade has been one of THE CHEMIST AND DRUGGIST'S strong points from the outset. Through our annual Colonial Issue we give an exceptional opportunity for advertisers to increase their business with the colonies. This issue will be on April 29, and, in addition to those who receive it weekly, it will be sent to all buyers of druggists' goods in India, Burmah, Straits Settlements, South Africa, China, Japan, and the West Indies. The publisher will give any inquirer information regarding this important issue.

## Summary.

THE LORD CHANCELLOR is a shareholder in Lewis & Burrows (Limited) (p. 570).

CAMPFORATED OIL still catches chemists tripping (p. 562).

A BIG American patent-medicine combine is reported (p. 559).

SOME interesting wine-licence applications are reported on p. 555.

THE new French navy medicine chests are figured and described on p. 565.

THE JAVA CINCHONA SHIPMENTS for March show decided improvement (p. 583).

BORIC-ACID SOAP is shown by Mr. Carulla to have peculiar antiseptic properties (p. 560).

THE PROBABLE CANDIDATES at the forthcoming Council-election are named on p. 572.

THE LATEST pharmaceutical side-line is graphically sketched by "F. R." on p. 576.

QUININE speculation has had a set-back this week. The position is discussed on p. 571.

THE STOCKS of the principal drugs in London warehouses on March 31 are given on p. 584.

A FEW GOOD IDEAS are mentioned in this week's Practical Notes column (p. 575).

FRENCH, ITALIAN, AND SENEGAL TRADE are the subject of Commercial Notes on p. 578.

ELEPIZONE FOR EPILEPSY is, according to Dr. Womack, a solution of potassium bromide (p. 555).

THE JAMAICAN TARIFF is to be increased, and in consequence there is a political crisis in the island (p. 583).

THE METHOD of administering tuberculin to dairy stock is described in the article on "Bovine Tuberculosis" (p. 572).

OUR NEW YORK CORRESPONDENT gives some useful hints concerning peculiarities of New York prescriptions (p. 559).

IN SELLING OXALIC ACID the name and address of the purchaser should be obtained. So Mr. Braxton Hicks thinks (p. 554).

THE FRENCH GOVERNMENT needs money, and is to get some millions of francs by letting match-boxes as advertising-spaces (p. 557).

MR. A. S. HILL, the father of the London drug-trade, is dead. Some biographical notes and a portrait of Mr. Hill are given on p. 567.

WITH 6s. 6d. a druggist's assistant started in business eighteen months ago, and is now taking 17l. a week. For how it was done see p. 575.

OPPOSITION to the Sale of Food and Drugs Bill is urged by a militant correspondent, who says the rights of the retailer are in jeopardy (p. 578).

THE MARKETS are quiet this week; but there are changes in arsenic, quinine, salol, and sugar of lead, and several articles are firmer. We report the varnish-gum sales held on Thursday (p. 581).

ETHER should not be sent out in Winchester glass bottles and should be brought under the Petroleum Act. A Rochdale Coroner's jury makes these recommendations in consequence of a fatal explosion (p. 554).

THE APOTHECARIES' COMPANY have obtained an apology from the Dewsbury Chemists' Association, who said to the Privy Council that the apothecaries-assistants' certificate was not a sufficient legal qualification (p. 573).

THE LORD CHANCELLOR'S BILL dealing with company-pharmacy has raised the indignation of the drug-trade. Meetings regarding it are reported on p. 561; letters from Messrs. Campkin, Gifford, Grace, and Reid are printed on p. 577; and on p. 569 we print an appeal which we have prepared for presentation to members of the House of Lords.

B—C



## English News.

*Local newspapers containing marked items of news interesting to the trade are always welcomed by the Editor.*

### A Chemist on the "Stella."

Amongst the passengers of the ill-fated *Stella*, which was wrecked on the Carquet rocks on Thursday last, was Dr. P. H. Davis, of the East Hill Laboratory, Wandsworth. This gentleman was an analytical chemist well known to the tobacco-trade as an expert adviser on the blending and perfuming of tobaccos. He had made considerable study of this department, and had gathered together a magnificent library of books relating to tobaccos. A lady who was travelling with Dr. Davis was amongst the saved, but no trace has been found of Dr. Davis himself. It is feared that he went down with the ship.

### A Chemist Stowaway.

At the Thames Police Court on Monday, three men were charged with concealing themselves on board the *Dunottar Castle* on the voyage from Cape Town. Amongst them was Maurice Doyle, described as a chemist. Mr. F. Deakin stated, on behalf of Messrs. Donald Currie & Co., that Doyle's friends had sent a cheque for his fare, but the prosecutors were unwilling to withdraw the charge, as a salutary lesson was desirable. Doyle pleaded that he had no intention of defrauding the company, as he knew his friends would pay when he got home, and he was driven to desperation at Cape Town because he had tried in vain to get work either there or in Port Elizabeth, and was walking the streets of Cape Town without a sixpence in his pocket. Doyle was fined 20*l.* and two guineas costs, or fourteen days' hard labour failing payment of the fine. Thirteen guineas of the fine was ordered to be paid to the prosecutors. Doyle's name does not appear on either the British or Irish registers.

### The Sale of Oxalic Acid.

On Wednesday, March 29, at an adjourned inquest held at Putney by Mr. A. Braxton Hicks on the body of Ethel Richardson, aged 30 years, a typewriter, of Fulham, who committed suicide by taking oxalic acid while suffering from influenza, it was stated that a paper bearing the address of the Putney branch of Parkes' Drug-stores was found near the body of the deceased.

Thomas Morris, chemist and druggist, said he was manager of Parkes' Drug-stores, 141 High Street, Putney. He had two assistants, neither of whom was registered. On the morning of the day on which the deceased died he was in the shop, but did not recollect serving a person answering her description with oxalic acid. They sold so much oxalic acid that it would be difficult to remember an individual purchaser. They sold, perhaps, two or three dozen packets a day. His assistants would not serve it in his absence. It was kept in a drawer, which he did not lock before he left the shop. The assistants would hardly be likely to sell it, however, remembering that they would be liable to a 5*l.* penalty for so doing. Witness was called down when it was wanted.

The Coroner: Do you ever endeavour to ascertain the name and address of a person buying oxalic acid?—We caution every purchaser of a poison, no matter what it is.

But do you ever take the trouble to ask the name and address? You know it was sold to this young woman; do you ever sell it to women?—Yes, to anybody.

But do not you ask them what they want it for?—Yes, always.

You know by law the sale of these poisons is entirely in the hands of chemists?—Not all, sir.

Oxalic acid is?—No, it is often sold at oilshops.

The Coroner: Well, you write and tell me of one that sells it and I will soon put the Society on to them. By law you have the monopoly of selling poisons, and I am thinking that for the safety of the public you might take the name and address of a person buying oxalic acid. It would help the coroner, the police, and the public very much. Anyone can put it in a man's beer and kill him, and the poison

cannot be traced. I should be glad if you would make a similar suggestion to the whole of your profession at the next meeting of your Society. I am speaking to you, not as a trader, but as a professional man, as you are entrusted with the sale of poisons. Oxalic acid is more frequently asked for than any of the poisons.

Witness: It is largely sold for laundry-purposes. The packet the deceased had seemed to contain 437 gr.

The Coroner: And 126 gr. were found in her stomach. This is the only opportunity I have of pointing it out to the trade. It is not so often asked for that you could not ask the purchasers for their names and addresses. Will you do that?—Yes.

And bring it before the Society?—Oh, yes.

The Coroner: You will be assisting us greatly. I wish oxalic acid was included in the first part of the schedule.

Mr. Frederick Womack, lecturer on chemistry and physics at St. Bartholomew's Hospital, who analysed the contents of the deceased's stomach, having given evidence, the Coroner explained to the jury the difference between poisons included in the first part of the schedule and those in the second part, and said chemists were in a very delicate position, being given the advantage of selling poisons by the State, and they should assist the public when they could. He thought all chemists would do as Mr. Morris had promised if they were asked. It was a pity carbolic acid, another deadly poison, was not in the schedule. He mentioned these things as a public matter. He would suggest that Mr. Morris locked his oxalic-acid drawer when he was leaving the shop. If the jury cared to make any suggestion he would write to the Pharmaceutical Society.

The jury returned a verdict of temporary insanity, and said they entirely agreed with the Coroner's remarks, and hoped other chemists would follow the example Mr. Morris had promised to set.

The Coroner said he had no doubt a report of the case would appear in THE CHEMIST AND DRUGGIST.

### Ether-explosion.

At Rochdale, on March 29, the adjourned inquiry was resumed into the deaths of Emma Eleanor Evans and Lavinia Barker, the nurses who were killed by an explosion of ether at Rochdale Infirmary. Particulars have been already given in our issues of March 18 and 25.

Walter Hutchinson Hall, chemist, Littleborough, said he had supplied ether to the workhouse. It was ordinary sulphuric ether, sp. gr. 720. He had not supplied any before this last quarter, when two or three "Winchesters," containing five pints each, were sent in.

The remains of two broken bottles were produced. One had contained the ether which caused the explosion, and the other (bearing Mr. Hall's label) had been broken afterwards. Pointing to these bottles, the Coroner asked whether they had been supplied by Mr. Hall. Witness said he could not swear that the unlabelled bottle was supplied by him. He did not put up the ether himself, but bought it in Winchester's ready made up. He merely bought it to sell again.

The Coroner: This ether is a common article of commerce?

—Witness: Yes, in a chemist's shop. Would you sell it to anybody?—Yes; we make it up in prescriptions. If I came into your shop and asked for a Winchester of ether you would sell it to me?—Yes, if we thought you were a responsible person. You would sell it to any responsible person?—We should not sell it if we thought it would be used for an improper purpose. It is used in such a variety of ways nowadays that people might want it for all sorts of things?—I don't think so. You have not a large sale for it?—No; we sell it only in small quantities. You would not sell a large bottle without some inquiry?—No. You don't put anything on the label to show that ether is inflammable, and that it is dangerous to put it near the fire?—No. But that would be a good thing and a simple thing, would it not?—Yes; but as it was for the infirmary we did not think it necessary. All ether is more or less inflammable. He kept his stock in a cupboard in the cellar, which is a cool place. It was only sold retail in very small quantities; if in large quantities customers would certainly be warned.

James Henry Heseason, analytical chemist, in the employ of Messrs. Oldfield, Pattinson & Co., wholesale chemists, Manchester, was then examined.



The Coroner: You send ether out in these blue bottles?—Witness: Yes. What price do you pay for the bottles?—About 57s. 6d. a gross. The people who make them do not know what they are to be used for?—No; they are used for all sorts of things. Can you tell from the remains (produced) whether this is one of your bottles?—I could not possibly tell. The cork would be finished in this way?—Yes; the cork is covered with parchment and steeped in linseed oil, to make it airtight and prevent the vapour leaking, as ether-vapour is very volatile. As you are a chemist you know the properties of ether; is it liable to expand with heat?—Yes. And do you allow for that in the bottles?—Yes; in a 90-oz. (Winchester) bottle, which would hold 5½ lbs. of water, we put 4 lbs. of ether. The glass of the exploded bottle is very uneven in thickness, but all Winchesters were made so.

The Coroner pointed out that the glass near the bottom of the bottle was much thicker than at the top, but witness considered the bottle a perfectly safe one for ether. The fault, the witness said, was with the storing more than with the bottle, which was strong enough to carry 9 lbs. of oil of vitriol, therefore it was strong enough to hold 4 lbs. of ether, but ether ought to be stored in a cold room, away from the sunlight. In his opinion the disaster was caused by the ether-vapour from the broken bottle taking fire. His firm sent out large quantities of ether, and he had never heard of a similar case, though he had seen ether take fire through careless handling. It would be safer to have stronger bottles with labels stating that the liquid was highly inflammable, but that was not required by law. It is not retailed very largely, except for drinking-purposes in certain parts of Ireland. (Laughter.) They stored ether in metal "drums," but the objections to sending it out in metal flasks were the cost of the flasks and the increased cost of carriage.

The Coroner thought the plan employed in American hospitals of serving the ether out in metal flasks for the use of surgeries was preferable to the glass-bottles method, and that only people who understood its properties should be allowed to handle it. He also thought that merely labelling it "Ether" was not sufficient, and there ought to be some restrictions put upon the sale. He was of opinion that it ought to be embodied amongst the inflammable substances in the Petroleum Acts. In laying these recommendations before the jury, however, he said the chemists who supplied the ether were quite satisfied that it was sent out in a proper manner, and he did not wish to say anything that would make them responsible in any way. The jury returned a verdict of accidental death in both cases, and recommended that ether should be sent out in stronger bottles than those now used, and should be brought within the scope of the Petroleum Acts.

#### Glycerinated Calf-lymph.

The *British Medical Journal* states that since February the Local Government Board has been issuing the new glycerinated calf-lymph to public vaccinators at the rate of 1,400 to 1,700 tubes per day; but this does not nearly suffice for the public requirements, which appear to include the demands of 20,000 private practitioners in England and Wales. The Local Government Board has not, however, decided to put private manufacturers of lymph out of the field, although some medical practitioners appear to be urging them in that direction.

#### A Fraud on the Poor.

While holding an inquest at Putney last week, Mr. Braxton Hicks said he wished to take that opportunity of exposing what he characterised as a gross fraud on the poor. At an inquest which he held a few weeks since at Wimbledon on a young girl, the daughter of a poor labouring man, the father stated that he answered an advertisement headed "I Cure Fits," and purchased for 7s. a bottle of medicine called "Elepizone, prepared only by H. G. Root, 28 Endsleigh Gardens, Euston Road, London, N.W." It professed to prevent and cure fits, epilepsy, and falling sickness, and the label recommended that it be taken regularly according to the directions. He had asked Dr. Womack, of St. Bartholomew's Hospital, to analyse the contents of the bottle, and would now ask him to tell the jury the result. Dr. Womack said the liquid contained 3 gr. of potassium bromide in each drachm, the remainder being inert vegetable colouring-

matter, and would cost 2d. per bottle. He had made a most careful analysis. The Coroner: You join me in giving this advertisement? Dr. Womack: Most certainly I do. The Coroner: And you and I between us will defend any action that may be brought against us? Dr. Womack: Yes. The Coroner added that when he found poor people relying on these things and paying 7s. a bottle for them when sixpence would leave a good margin of profit he could not help raising his voice and protesting against it, for it was a fraud on the poor.

#### A Superfluous Analyst.

Llanfyllin Town Council having appointed Mr. T. P. Blunt as public analyst for the borough, the Local Government Board has written pointing out that as the borough formed part of the county for the purpose of the Food and Drugs Act, 1875, the analyst for the borough was the county analyst appointed by the County Council.

#### Chemist-councillors.

The following chemists have been elected members of Urban and Rural District Councils:—

Mr. E. Smith, 21 West Street, Horsham, Sussex.  
Mr. T. M. Baxter, Bourne.  
Mr. Alfred Parker, Uttoxeter.  
Mr. J. L. Naylor, Station Road, Bamber Bridge, Walton-le-Dale.  
Mr. J. Lofthouse, Fleetwood.  
Mr. J. Hughes, Steyne View House, Bognor, Sussex.  
Mr. John Sumner, Wilmslow.  
Mr. Joseph Thomas, Garstang.  
Mr. A. J. Gower, chemist and druggist, Tonbridge, has been elected a member of the Urban District Council of that town.  
Mr. William Alfred Jones, the popular manager of the export-department of Messrs. Evans, Sons & Co., of Liverpool, has been elected a member of the West Kirby District Council.

#### Wine-licences.

An off wine-licence has been granted to Mr. J. Murison (Parke's Drug-stores) for premises at 14 Hill Road, Wimbledon.

The wine-licence held by Messrs. Faileigh & Son, Barnstaple, has been transferred to Mr. T. Dunn, who has purchased the business.

The application of Ernest William Gough, manager of Lewis & Burrows (Limited), chemists, 17 The Broadway, Crouch End, for a licence for wine has been granted by the Highbgate Magistrates, the applicant offering to agree to the condition "Medicated wines only" being endorsed upon it.

At the adjourned meeting of the Highgate Magistrates Mr. John Murison, the managing director of Parke's Drug-stores, 52 The Broadway, Crouch End, was granted a wine-licence subject to its being endorsed "For medicated wines only." This Mr. Murison refused to accept, and said he should apply for a mandamus against the Bench. At the meeting on March 29, Mr. Roberts (for Mr. Murison) asked the Bench to state their reasons for the refusal to grant the licence in accordance with the Act of Parliament. Mr. Cory Wright: Is he willing to accept it under those conditions? Mr. Roberts: No; he is not. Mr. Cory Wright: The Bench have considered it, and the licence will be granted.

At Richmond Divisional Licensing Sessions, on March 30, the renewed application on behalf of Mr. John Egbert Griffiths, one of the directors of Howard & Co. (Limited), chemists, Watford, for an off wine-licence for premises at 25 Hill Street, Richmond, was considered. Mr. Crawshay (for plaintiffs) intimated that the licence was wanted to enable the company to sell wines for medical and invalid purposes. One of the Magistrates asked Mr. Crawshay if the applicant was prepared to give an undertaking that only wines for such purposes would be sold. Mr. Crawshay replied that he was not prepared to do that, whereupon the Magistrate observed that the company wanted the licence, but the Bench wanted to know how they were to send the company to prison if they did not obey the law. Mr. Crawshay submitted that the Bench could grant the licence to :



official of the company, but it was pointed out that, the Magistrates had no notice of such an application. The licence was refused on the grounds that the application was not in order.

#### Fires.

A stretch of roofing on the premises at 4 Napier Road, Kensington, owned and occupied by Mr. W. R. Howard, chemist and druggist, was on March 30 considerably damaged by fire.

A fire broke out on April 4, at Wallis Road, Hackney Wick, N.E., on the premises of Messrs. W. C. Barnes & Co., manufacturing chemists. A large building, which was used as a manufactory and stores, became ignited from an unknown cause, and was seriously damaged before the fire could be subdued.

#### Drug-contracts.

In addition to those mentioned in previous issues, the following vestry contracts have been effected:—

Belper.—Mr. C. W. Southern, Belper, for drugs and medicines.

Burton-on-Trent.—Messrs. Gibson & Co., Burton, for drugs and chemicals.

Clerkenwell.—Messrs. Adcock, Easton & Co. for carbolic acid, liquid and powder; Messrs. Newton, Chambers & Co. for Izal.

Greenwich (Board of Works).—Sanitas Company (Limited) and Jeyes' Sanitary Compounds Company (Limited) for disinfectants.

Hollingbourne (Kent).—Mr. H. Oliver for drugs and chemicals.

Louth.—Mr. W. C. Street for cod-liver oil at 7s. per gallon; Mr. G. C. Cheetham for Howards' quinine at 2s. per oz.

Ludlow.—Mr. Scuttle for quinine and arrowroot.

Malmesbury.—Mr. E. Walker for carbolic soap at 16s. per cwt.

Newcastle-on-Tyne.—Messrs. Taylor, Gibson & Co. for drugs.

Paddington.—Messrs. Burgoyne, Burbidges & Co., 12 Coleman Street, E.C., for drugs.

Peterborough.—Mr. T. J. Calcutt, for drugs.

Poplar.—Messrs. Hodgkinson & Co., for drugs at a discount of 31½ per cent. off scheduled prices.

Romney Marsh.—Mr. A. H. Smith for arrowroot 9d. per lb., linseed 3d. per lb., and ginger 8d. per lb.

St. Pancras.—Messrs. Burgoyne, Burbidges & Co., Coleman Street, E.C., for drugs.

#### Chemist and Antipyrin.

An inquest was held at Kensington, on Tuesday, on the body of Mrs. Buckles, the widow of a clergyman, of Colville Road, North Kensington. Last Saturday the deceased lady complained of pain in her head, and went to the shop of Mr. William Halkett, chemist and druggist, 199 Portobello Road, Notting Hill, and asked for a couple of antipyrin-tablets, as she had a severe headache. Mr. Halkett hesitated, until the deceased said she was used to taking them and wished to purchase a bottle of Burroughs & Wellcome's tablets, and knowing they only contained 5 gr. each he gave them to her. After swallowing them she seemed unable to leave the shop, and he at once sent for a doctor. Mrs. Buckles was taken home in a cab, and died the next day. In reply to Mr. Oswald (the Coroner), Mr. Halkett said antipyrin was not in the schedule of poisons. Dr. Pickett said the death was due to cerebral hæmorrhage. There was no doubt the blood-vessel ruptured when the lady first complained of her head, and the hæmorrhage was gradual. Antipyrin would not be a bad thing to give her under the circumstances. He had known a person to be seriously ill after taking 10 gr., and he had also known a person take 90 gr. without ill effect. It was a very uncertain drug, and ought not to be taken except under medical advice. The jury returned a verdict in accordance with the medical evidence.

#### Fatal Accident with Carbolic Acid.

On Tuesday Mr. Langham, the Southwark Coroner, held an inquest at Guy's Hospital with reference to the death of Frank Leonard Charles Chipping, aged 18 years, lately in the employment of Messrs. Wright, Layman & Umney, wholesale druggists. Mr. Charles Umney was present at the proceedings, and Mr. W. F. Craies, barrister (instructed

by Brasch, Wheeler, Umney & Chalmers), watched the case on behalf of the firm.

Henry Shepherd, carman, stated that on the Wednesday previous he was driving a four-wheel van (one horse) to the firm's warehouse in Castle Street, Southwark, when the hind wheel came off, through the axle breaking. Deceased was in the van with witness, and as the van tilted over on its side they were flung among the contents of the van. In the van there had been two casks and several stone bottles, and when the bottles broke in the road the acid contents went over both of them. Witness scrambled up and went into the warehouse, but the next he remembered was being in bed at the hospital.

Samuel Perry, a stoker, who witnessed the accident, said there were some tram-lines where the van was, and the road was not very smooth, but he could not say what caused the accident. P.C. Herbert Bones said he examined the tram-lines and roadway, and felt positive they were not the cause of the accident. He concluded that the axle was defective.

Arthur Wood, wheelwright, of Beddington, Surrey, said the van was not overloaded, and had been in use as a carrier's cart for years. In answer to several jurymen who inspected the broken axle, Mr. Wood admitted that the iron was probably not of the best, but he thought it was quite sound for axles.

Shepherd, recalled, said two days before he had been in collision with another van, but although he was thrown onto the van was not damaged.

Mr. Wood did not think the previous accident affected the axle.

In answer to the Coroner, Mr. Craies said he was instructed that the acid was diluted phenol, commonly known as carbolic acid.

John Nichols said when the accident occurred both men ran into the firm's warehouse, and witness took them downstairs and bathed their faces with oil, and then sent them in cabs to the hospital. Dr. William T. Milton, house-surgeon, stated that the deceased died shortly after his admission from the poisonous effect of the acid, it being absorbed through the skin. Mr. Craies said the firm wished to express their regret at the accident, which was unavoidable, in that they did not know the van was defective.

The jury returned a verdict of accidental death. They added: "We are of opinion that the accident was contributed to by the bad state of the iron used in the axle of the van."

#### Embezzlement.

The adjourned hearing of the case against Henry Orton Samnells, formerly a representative of Messrs. J. Crosfield & Sons (Limited), Warrington, was taken at Salford Police-court on March 30. Prisoner was charged with obtaining 7l. 11s. by false pretences from Mr. H. Thompson, chemist, Weaste, under circumstances reported in last week's issue. He was now further charged with embezzling the sums of 8l. 8s. and 1l. 13s. belonging to Messrs. Crosfield, and after evidence had been given for the prosecution, it was stated that, owing to the previous good character of accused, the prosecutors desired to withdraw the charge of false pretences. A sentence of six weeks' hard labour was passed.

#### Bogus Employment Agency.

At County of London Sessions, on March 5, Percival Robertson, described as a druggist, admitted that he obtained two sums of 20s. each by means of false and fraudulent pretences. Robertson answered advertisements in the daily papers inserted by people desirous of obtaining employment, and, on promise of giving them situations, opened up a correspondence, getting them to forward 1l. "as a guarantee of good faith, and to avoid his getting anyone unscrupulous." The money despatched, no more was heard of Robertson. Police evidence was given that there were twenty-four complaints against prisoner from all parts of London, and a sentence of six months' hard labour was passed.

#### The Arsenical-spice Case.

At Norfolk Quarter Sessions, on April 5, Sarah Vyse, a cook, in the service of the Rev. S. F. Barber, West Raynham, was sentenced to nine months' hard labour for attempting to poison her employer's family and her fellow-servants by placing arsenic in the pepper used in the preparation of

various dishes. Particulars of the case were given in our issue of March 25.

#### Store-prices.

The following are noted as alterations in the April price-list of the Civil Service Supply Association:—

REDUCED.—Keating's cough-lozenges, from 2s. 2d. to 2s. 1d. per box; Edenia perfume (Lundborg's), from 3s. to 2s. 9d. per bottle; precipitated sulphur, from 5½d. to 5d. per lb.; phenacetin tablets, from 8d. to 5d. per bottle of 25; Tonquin beans, from 8½d. to 6d. per oz.

ADVANCED.—Camphor, 1s. 6d. to 2s. per lb.; in blocks, 1s. 5d. to 1s. 11d. per lb.; Cuticura resolvent, from 4s. to 4s. 4d. per bottle; Mellin's food, 1s. 9d. to 1s. 9½d. per bottle; ipecacuanha-wine, from 4d. to 5d. per 2-oz. bottle, from 6½d. to 8½d. per 4-oz. bottle; Robinson's barley and groats, from 7d. to 7½d. per tin; Howards' quinine, from 1s. 4d. to 1s. 7d. per oz.; saffron, from 3s. to 3s. 2d. per oz.; vaseline-tar soap, from 2s. to 2s. 6d. per doz.

TAKEN OUT OF LIST.—Edgar's croup-lotion.

#### Druggists' Clerk Killed on the Railway.

Mr. E. N. Wood, deputy-coroner, held an inquest at Rotherhithe on Tuesday evening relative to the death of James Jones (54), late a clerk in the service of Messrs. Evans, Lescher & Webb, Bartholomew Close, and living at 88 Delaford Road, Rotherhithe. Deceased was run over and killed at South Bermondsey Station early on Good Friday morning. The widow stated that her husband left home on Thursday morning to go to business as usual, and early the next morning she received information that he had been killed. An engine-driver, named Bannister, said he was passing through South Bermondsey Station just before 1 A.M. on Good Friday morning when he felt his engine pass over some obstacle. He stopped and sent his fireman back to the spot, and he found deceased lying across one of the lines. Life was extinct, but the body was quite warm. A London Bridge to South Bermondsey ticket was found on deceased. It was issued just before 12.15 the same morning at London Bridge. Deceased left his place of business at 8.45 on Thursday evening. He was then in good spirits, and had been "larking" with the boys. The only theory to account for the sad accident is that deceased stepped out of the 12.15 train on the wrong side, fell on to the lines, and was stunned; when he recovered himself he attempted to crawl to the platform, and whilst doing so was run over by the light engine, which would make very little noise in its approach. The jury returned a verdict of accidental death.

### Irish News.

*Local newspapers containing marked items of news interesting to the trade are always welcomed by the Editor.*

#### Distribution of Poisons.

The suggestions made by Mr. R. J. Downes as to the distribution of poisons at the Health Congress held in Dublin last August (*C. & D.*, August 27, 1898, page 381) were brought under the notice of the Dublin Public Health Committee by Sir Charles Cameron last week. It was resolved to forward the recommendations to the Premier with a view to further legislation on the matter.

#### Drug-contracts.

Last week, at the meeting of the Kilrush Poor-law Guardians, the Clerk stated that Dr. O'Ryan & Co., Tipperary, had consented to remain the medicine-contractors until September 29. Their offer was accepted.

Messrs. J. Claike & Sons, Belfast, have been appointed contractors to the Guardians of the Abbeyleix Union for six months, and for the supply of medicines to the Coleraine Poor-law Guardians.

Messrs. P. A. Leslie & Co., Dublin, have been appointed contractors for the supply of drugs and medicines to the South Dublin Union. With reference to the existing contract Messrs. Boileau & Boyd (Limited) have written that they will agree to supply medicines until the termination of their contract at the 10-per-cent. discount off the prices in the new L.G.B. lists. Messrs. Leslie have also obtained the

contract for supplying medical appliances to the Coleraine Poor-law Guardians and medicines to the Naas Union.

The Medical Requisite Company, Cork, are the appointed contractors for surgical appliances to the Naas Union.

Mr. M. H. McNamara, L.P.S.I., Tuam, has been appointed medical and surgical appliances contractor to the Tuam Union.

Mr. Bolger, Maryborough, was appointed drug-contractor to the Mountmellick Union, after a somewhat stormy meeting.

Messrs. Seymour, Ennis, were represented at the Ennis Poor-law Guardians' meeting last week. They object to alter the terms of the existing contract as desired by the L.G.B. The matter was adjourned.

### Scotch News.

*Local newspapers containing marked items of news interesting to the trade are always welcomed by the Editor.*

#### Chemists' Day Out.

The employés of Messrs. Francis Spite & Co. (Limited), Glasgow, numbering about fifty, journeyed per saloon to Falls of Clyde on Monday, April 3 (Spring Holiday), and spent a very pleasant day. Luncheon was provided for them in Mr. Lawson's hotel, and visits to the Falls and sports filled up the rest of the day.

#### Glasgow Pharmacy Club.

At a meeting of Glasgow chemists' assistants last month it was agreed to form a Pharmacy Club. With this object in view the interim committee have called a meeting, to be held in the Lesser Waterloo Rooms, 41 Waterloo Street, on April 12, at 9.15 P.M. Mr. D. Massie, 285 Gairbraid Street, Glasgow, is the secretary *pro tem*.

#### School Botanisng.

On April 3 the students of the Glasgow and West of Scotland School of Pharmacy, along with their principal (Mr. Barrie), went on their first botanical ramble for the season to Possit Marsh and Cadder Woods. The following plants were found in flower:—*Ranunculus Ficaria*, *Salix cinerifolia*, *Tussilago Farfara*, *Bellis perennis*, *Daphne Mezereum*, and *Cardamine pratensis*.

#### The Kinninmont Prize.

Mr. William L. Currie, 223 Byres Road, Dowanhill, Glasgow, asks us to make it known that the names of competitors for the Kinninmont Prize (a gold medal and books) must be sent to him in the course of this month. Assistants in Glasgow, and the following counties, Argyle, Ayr, Bute, Dumbarton, Dumfries, Kirkcudbright, Larark, Renfrew and Wigtown, who have qualified during the two years previous to the examination, are eligible to compete, if they have been employed in any of the places above named for six months previous to the date of examination. Assistants who have served apprenticeship within the districts named, but who have removed outside the radius within twelve months from date of examination, are also eligible. The subjects of examination will be botany, magnetism and electricity, and a detailed syllabus showing the extent of the examination will be supplied on application.

### Gazette.

#### PARTNERSHIPS DISSOLVED.

Boulton, A. E., and Jessop, J. W., under the style of Boulton & Jessop, Horncastle, surgeons and apothecaries.

Fowlds, W., and Dean, A. S., under the style of Fowlds & Dean or W. Fowlds, Keighley, wholesale and retail chemists and druggists.

Frape, C., and Ellis, A. E., under the style of Frape & Ellis, Leeds, vinegar-brewers.

Hetley, H., and Underwood, J. C., under the style of Hetley & Underwood, Upper Norwood, S.W., physicians and surgeons.



## French News.

(From our Paris Correspondent.)

**THE INFLUENZA EPIDEMIC** in Paris continues with little signs of abatement, though it is not so severe as in 1889, 1892, and 1895. Young children enjoy immunity, and the working classes are to a great extent unaffected. The mortality returns for last week show a progressive increase, being 284 over the average, as against 238 for the previous week.

**A PETROLEUM FATALITY.**—A woman in Paris named Anna Guntzwiller, a servant, who had for some years suffered from sciatica, was advised by a "wise woman" to anoint her suffering limbs with petroleum. This she did when she went to bed, and then proceeded to warm a cup of milk by means of a spirit-lamp. Her night-dress, however, being partly saturated with the oil, caught fire, and the poor woman was so badly burned that she died the next day.

**THE RÖNTGEN-RAY CASE**, to which I referred last week, is not yet settled. The Court has now named Dr. Brouardel as expert to investigate how far the operator, who is sued by Mme. Mockert for damages, was to blame. His inquiry will not be limited to details of the present case, but will take the form of an inquiry regarding the use of the  $x$  rays. If the case goes against the operator, it is likely that radiography for surgical purposes will receive a check in France.

**HAIR-DYE COMPLICATIONS.**—A Paris coiffeur was lately sued by a retired pharmacien whose wife alleged that after he had given her hair a shampoo and a friction with alcohol the skin of her head showed symptoms of serious poisoning. The hair came out in handfuls, and the inflammation spread to the eyes, shoulders, and breast. In defence, the coiffeur stated that the lady dyed her hair. "It is probable," he said, "that after an application of the dye used by me she was not satisfied with the tint, and used a solution of sublimate to remove part of the dye." This, it appears, is a practice occasionally followed by Parisian ladies. The coiffeur's theory was developed by his counsel, but was opposed as not plausible by the plaintiff. The manufacturer of the incriminated dye was also represented in court. Finally, the parties agreed to submit the matter to experts.

**A DISPENSING ERROR.**—A pharmacien's error in dispensing came before the Paris Magistrates last week. Fortunately no fatality resulted. A doctor had prescribed for one of his patients medicine in which belladonna was an ingredient. The medicine was dispensed by an assistant, and the patient took several doses, after which his condition became rapidly worse. The doctor diagnosed congestion of the brain, and gave a treatment accordingly, but without effect. He then had an idea that the pharmacist had made an error, tried a spoonful of the medicine himself, and immediately began to suffer from symptoms of poisoning. In order to protect himself, he lodged a complaint against the pharmacist. The medicine was analysed by MM. Brouardel and Ogier, who found about four times the correct quantity of poison. In view of the fact that the error had caused no serious results, the pharmacist's assistant escaped with a fine of 50*fr.*, his employer being declared civilly responsible.

**MINERAL WATERS AND MATCH-BOXES** received the attention of the Chamber of Deputies last week. The proposal to place a tax of 1*fr.* a bottle on all mineral waters, whether French or imported, was summarily rejected. The suggestion was opposed by the Government, and M. Legrand said that mineral waters must be considered as medicines, and consequently ought not to be taxed. The suggestion that match-boxes should be farmed out for advertising purposes was objected to by M. Rouvier as *infra dig.* He said if the State once entered on that line it would be difficult to know where to stop, and quoted the case of the wife of an American patent-medicine manufacturer, who once offered to buy the Arc de Triomphe at Paris. M. Peytral, the Minister of Finances, once a wholesale druggist, supported the idea, which was carried. It appears that proposals have already been made for the monopoly of advertising on match-boxes here. An annual payment of 5 000 000*fr.* (200 000*l.*) is the best offer so far. A manufacturer of cough-pastils is willing to pay a very high figure, and it is said that an English firm have also made a bid.

## South African News.

(From our Correspondents.)

**A HORSE IN A PHARMACY.**—One day last month a horse, drawing a heavy meat-waggon, went through one of the windows of Lennon's Adderley Street pharmacy, Cape Town, with disastrous results. The horse was so badly injured that it had to be shot. The resident director of the company, Mr. Henry Tebb, was confined to bed at the time.

**AN APPROPRIATE APPOINTMENT.**—Mr. J. C. Watermeyer, one of the analysts employed in the Government Laboratory, Cape Town, is about to leave for German South-West Africa, where he will take charge of the water-supply. Mr. Herholdt, Secretary for Agriculture, on behalf of his many friends in the Government service, presented him with a set of mathematical instruments.

**TRANSATLANTIC MEDICOES** should make some inquiry about the conditions of registration in Cape Colony before leaving America. Most American medical degrees are granted on a three or four years' curriculum. These are useless for registration in the Cape, as a five years' minimum is required there. Four American medical certificates have recently been refused on this ground.

**BUSINESS CHANGE IN JOHANNESBURG.**—Mr. Thos. William Dukes has purchased the business which, for the past five years, he has carried on in Johannesburg on behalf of P. J. Petersen & Co. and himself. Mr. Dukes was at one time an assistant to the late Dr. John Percy, M.D., F.R.S., Government Metallurgist, Royal School of Mines, and is an honourable man and medallist of the Royal College of Science, South Kensington, as well as a Fellow of the Chemical Society.

**ANALYTICAL CHEMISTRY** is a paying thing in Johannesburg. At the meeting of the Town Council on March 10 Dr. J. Loevy, public analyst, submitted his account, amounting to 1,105*fr.* 11*s.* 3*d.*, for analytical and bacteriological work done during the year 1898. This was passed, and the Chairman said that an arrangement had been made with Dr. Loevy, whereby he would in future be paid 1,000*fr.* a year for his services. This represents a fourth of the doctor's reputed income, as he is believed to receive 3,000*fr.* a year for gold-assaying and for his evidence in criminal cases.

**THE BRENNAN CASE.**—The report which we gave last week summarised the whole proceedings, especially the concluding part thereof. The chemists who gave evidence in favour of the defendant were Mr. Benjamin R. Cowgill, Mr. A. S. Smith, Mr. G. G. Skinner, Mr. Alexander Hemming, and Mr. J. C. Scrooby. They all agreed that the prescription given by the defendant was such that an intelligent dispenser would not use Fowler's solution of arsenic. The Judge, in his summing up, directed the jury that the defendant had not necessarily prescribed Fowler's solution, and he left the jury little option but to acquit the defendant.

**PHARMACEUTICAL SOCIETY OF RHODESIA.**—This young Society is beginning to work and to lay the foundations of pharmaceutical policy in the place where, less than a decade since, wild medicine-men were the only pharmacists. At a meeting of the Society held in Bulawayo on March 9, all the local members being present, Mr. F. J. Byrne was elected President, and Mr. W. Dawn Copley Hon. Secretary and Treasurer. Letters were read from chemists in other parts of Rhodesia, applying for membership and enclosing suggestions for the working of the Society. One of the first duties of the Society will probably be the drafting of recommendations for a Pharmacy Bill which, it is expected, will early come before the new Legislative Council. The first annual meeting will be held in October next.

The *Pioneer* says there is but little chance of the scheme started by the Maharaja of Lholpore in 1897 for founding a scientific bacteriological institute for India being carried out, as the Maharaja has found it impossible to obtain the two hundred odd lakhs of rupees required to found and endow the institute, in spite of the promises of support from ruling chiefs.



## Colonial and Foreign News.

**THE Rangoon Times** states that Mr. J. W. H. Burgoyne of the firm of Dodwell, Carlill & Co., well-known export merchants, Shanghai, has been committed for trial on a charge of obtaining from the Russian Bank a sum of 85,000 taels, on false pretences, against non-existent cargo. He admitted the charge.

**PATENT-MEDICINE MEN JOYFUL.**—It seems that the Pharmacy Bills regulating the sale of preparations containing poison, which have been introduced into the United States Assembly, are hanging fire, and proprietary-medicine men are confident that they will ultimately be shelved, or amended so as to be harmless.

**PHARMACEUTICAL IMPORTS INTO ROUMANIA.**—It has been decreed that no pharmaceutical product or speciality can be admitted into Roumania until it is analysed and approved by the Sanitary Council. The initial charge for approval is 4 $\frac{1}{2}$ l., after which the approved products pay a Customs-duty at the rate of 8 $\frac{1}{2}$ l. per lb.

**CARDAMOM-THEFTS IN CEYLON.**—Cardamom-stealing in Medamahanwara is said to be a very flourishing business. The thieves are both numerous and bold. When caught they often get off on some legal quibble, being always defended by a proctor who presumably gets paid out of the proceeds of the stolen crop, or, if they go to gaol, they merely treat the matter as a change of air and diet, and come out like giants refreshed to begin their evil practices again.

**ALLEGATIONS AGAINST SCOTT'S EMULSION.**—Messrs. Scott & Bowne, of New York, manufacturers of Scott's Emulsion, have begun suit in Los Angeles, Cal., against Mr. J. D. Hoover for \$100,000 damages. Complainants allege that in consequence of a crusade against them, carried on by Hoover, the sale of their medicine has been reduced to the extent of the amount asked for. Hoover denounced the emulsion in his pamphlets, and made it a condition of membership in certain classes he taught that no one should use it, alleging that it was composed of unwholesome ingredients.

**THE VIENNA APOTHEKERS' BOYCOTT.**—The Vienna Magistrate is endeavouring to persuade the Sick Funds Union (who have boycotted the apothekers) of the error of their ways. He has told them that mistakes are sure to be made by unqualified dispensers, and in the event of an epidemic arising the danger would be increased. The leader of the Union has told the Magistrate to mind his own business. The Union is to fight the matter out, and the fact that the apothekers have appealed to the civic authority does not indicate great faith in their legal status, according to which qualified apothekers only may dispense prescriptions.

**PHILADELPHIA EXPOSITION.**—We are indebted to a courteous Philadelphia correspondent for particulars of the exposition which is to be opened there on September 4 under the auspices of the Philadelphia Commercial Museum and the Franklin Institute. The main buildings will cover a ground-area of more than eight acres, and will contain at least 200,000 square feet of exhibition space. They are to be erected on the west side of the Schuylkill river, on the tract of fifty-six acres of land given to the Philadelphia Commercial Museum by the city, and upon which the permanent buildings of the museums are in time to be erected.

**PATENT-MEDICINE COMBINE.**—A gigantic combination of patent-medicine proprietors is the latest from the States. It is reported that negotiations have been completed for the formation of a corporation in the State of New Jersey, with a capital of \$25,000,000, to take over the control and management of a number of the leading proprietary medicines now on the market. Amongst the proprietors mentioned are the J. C. Ayer Company, Californian Fig-syrup Company, Carter Medicine Company, Emerson Drug Company, C. I. Hood & Co., and Pond's Extract Company. The rumour is strenuously denied by several of the firms who have been mentioned in connection with it.

## New York Notes.

(By the Man from London.)

**TO CLEAN RUBBER ARTICLES** such as syringes, hot-water bags, &c., apply a magma composed of benzine and sublimed sulphur, and wash afterwards with soap and water. This method leaves the rubber perfectly clean. This, of course, applies only to white-rubber goods.

**FAVOURABLY REPORTED.**—The "Shorter Hours Bill" to limit the working time of drug-clerks in New York City, which was introduced in the New York Legislature by the Druggists' League, has been reported favourably in the Senate by the Committee on the Affairs of Cities, to which it had been referred.

**N.Y. POISON-BOTTLE BILL.**—On March 13 the New York Senate passed the Special Poison-bottle Bill introduced by Senator Wilcox, which provides that poisonous substances shall not be sold by pharmacists or other dealers in drugs in less quantities than 8 oz., unless put up in a bottle or phial with serrated edges, and in which there is blown a precautionary symbol of a skull and crossbones.

**ADVERTISING THE DISPENSING-DEPARTMENT.**—A go-ahead pharmacist in New York has been making an original use of his windows lately with the idea of advertising the prescription-department. All his old prescription-books are placed on show, together with the utensils used in compounding and a large assortment of rare drugs and chemicals. Signs placed about the window draw attention to the fact that an error in dispensing has never been made, also that the crime of substitution is never committed.

**BELLADONNA PLASTER AFTER CAPSICIN.**—A peculiar case of poisoning came under my notice the other day which is worth remark. A woman who had been suffering from pains in the back put a capsicine plaster over the part affected. After a day or two she removed the plaster, and having bathed the skin, which was reddened somewhat from the medicament, she placed a belladonna plaster over the same spot. A few hours afterwards symptoms of narcotic poisoning came on and after being unconscious for two or three hours, the physician called in diagnosed the case correctly as poisoning by absorption of the belladonna from the plaster. The removal of the plaster and application of proper remedies soon placed the woman out of danger.

**NEW YORK PRESCRIPTIONS.**—The following notes may be useful to readers of the *C. & D.* who get New York prescriptions occasionally to dispense:—

A favourite skin-lotion prescribed largely by dermatologists here is—

|                    |     |     |     |      |
|--------------------|-----|-----|-----|------|
| Potass. sulphuret. | ... | ... | ... | 3j.  |
| Zinci sulphat.     | ... | ... | ... | 3j.  |
| Aqua rose q.s. ad  | ... | ... | ... | 3iv. |

M. Ft. lotio.

This lotion is known to the trade here as lotio alba, and is best made by dissolving the two salts separately in equal parts of the rose-water, and pouring the sulphuret solution into the zinc-sulphate solution, and stirring briskly with a glass rod until effervescence ceases and the lotion assumes a white colour.

A prescription frequently given by an eminent New York skin-specialist calls for  $\frac{1}{2}$  dr. of salicylic acid in 4 oz. of rose-water. The best dispensing-houses here add spt. vini rect., q.s., and turn out a clear lotion.

A base for a skin-paste frequently met with on American prescriptions is "gelanthum," which is made from sheet-gelatine, rose-water, with boric acid and formalin q.s. to keep it. It is nearly of the consistence of glycerole of starch.

Lassar's paste, which is largely prescribed here, is—

|             |     |     |     |      |
|-------------|-----|-----|-----|------|
| Pulv. amyli | ... | ... | ... | 3ij. |
| Zinci oxidi | ... | ... | ... | 3ij. |
| Vaselini ad | ... | ... | ... | 3j.  |

M. Ft. ungt.

American physicians frequently prescribe tr. nucis vom., Fowler's solution, &c., to be taken in drops, and it is as well to note when medicines are ordered to be taken in drops we always use proper dropping-bottles.



## The Winter Session.

### Society of Chemical Industry.

#### LIVERPOOL SECTION.

At the annual meeting of this section, held at the Liverpool University College last week, it was reported that the Dr. Harter memorial would take the form of a Harter lecture to be delivered to the Section once every two years. An endowment-fund of 300*l.* is suggested for this purpose. Mr. DOUGLAS HERMAN contributed notes on a "wonderful preparation" which a company had obtained the "sole right" to manufacture. This preparation, claimed to be capable of annihilating coal-smoke, could, however, not be distinguished from common salt coloured with nitramarine. [We have frequently reported on this stuff during the past five years.—*ED. C. & D.*] On a ballot for the election of officers, Mr. A. Smetham, F.I.C., was re-elected Chairman, Dr. Charles A. Kohn Vice-Chairman, Mr. W. P. Thompson Hon. Treasurer, and Dr. T. Lewis Bailey Hon. Secretary, with Messrs. Arthur Carey, Herbert E. Davies, Douglas Iferman, and W. C. Williams as members of the Committee.

#### NOTTINGHAM SECTION.

THE annual meeting of this Section was held at Nottingham on March 29, Mr. James O'Sullivan in the chair. The officers and committee for 1899-1900 were elected, viz :—Chairman, Dr. F. Stanley Kipping, F.R.S.; Vice-Chairman, Mr. Jas. O'Sullivan, in place of Mr. J. M. C. Paton; members of committee, Mr. Paton, Mr. W. Scott Herriott, and Dr. A. L. Stern; Hon. Treasurer, Mr. S. J. Pentecost; and Hon. Secretary, Mr. J. T. Wood.

A paper was read by Mr. PENTECOST on

#### THE ADULTERATION OF SUMACH.

This was illustrated by lantern-views prepared by Mr. M. C. Lamb during his researches on the subject. It was pointed out that by means of strong nitric acid true sumach-leaf may be dissolved out of a mixture, and by aid of the microscope the various constituents of the residue can be referred to their true origin; the adulterants differing in appearance from one another and from the genuine plant by the shapes of the hairs attached to the leaves and by the shape and number of the stomata. Mr. Pentecost remarked that notwithstanding the introduction of synthetic dyes the subject was still of interest to the dyer as well as to the tanner.

Mr. CARULLA then read a short paper on

#### THE FUNCTION OF BORIC ACID IN SOAPS,

in which he said that boric acid is of great use to destroy alkalinity, but it cannot remain in the free state in the wash-water when the soap is put into use, as seems to be imagined possible. It can have no antiseptic effect. For the introduction of antiseptics that require freedom from alkali boric acid in soap is, however, invaluable. A toilet-soap under the fancy name "Microvoid" is now made which involves this principle.

The CHAIRMAN said that the matter was of some importance, as boric acid in 2-per-cent. solution was used for the eyes, and of course a boric-acid soap would not have the effect of this solution. Carbolic acid would similarly react in a soap and be rendered inert.

Mr. PENTECOST said that he did not find a moderate percentage of alkali in a soap injurious to the skin. He could use a soap containing as much as 8 per cent. of carbonated alkali. He asked whether the short time during which the soapy solution remains in contact with the skin in washing can be regarded as sufficient to effect the desired object when using an antiseptic soap.

Mr. ADAMS thought it remarkable that such views as to the action of acids in soap should be prevalent. Boric acid and similar bodies would necessarily precipitate the fatty acids. He also asked whether the addition of boric acid to the soap would not interfere with its lathering qualities.

Mr. CARULLA replied that an addition of so much as 5 per cent. did make it difficult for the soap to lather. It made it, however, a very lasting and economical soap; still

this quality could be got with a much smaller percentage of the acid whilst benefiting the soap in other ways. Replying to Mr. Pentecost he said that idiosyncrasy entered into the question of the use of soap, as in other things. Some people could use a soap that would be very irritating to others. Regarding the time of contact of the soap-solution with the skin, he pointed out that the object of using a soap of the kind is to get rid of disease-germs, and to prevent their transmission from one person to another. With the increasing use of superfatted soaps for toilet-purposes, and the fact that disease-germs can live and multiply in oils and fats, it is quite likely that much disease is transmitted by more than one person using the same tablet of soap, which could not happen with a genuine antiseptic soap. Then, again, disease-germs are washed off the skin and carried into the water. Here they will remain in long contact with the soap-solution, which, if powerful enough, will put an end to their further power for harm.

Dr. KIPPING said that it was easy enough to render extensive surfaces of the skin, such as the hands, antiseptic even with plain water, but for such places as under the finger-nails, which could not be readily dried, and might form nests for bacteria, the resulting prolonged contact with the solution of an antiseptic soap was obviously a great safeguard.

The proceedings then terminated. The next meeting is fixed for April 26, at Leicester.

### Forfarshire District Chemists' Association.

At a meeting of this Association held on March 29 in Lamb's Hotel, Dundee, the collection of poison-bottles, &c., exhibited by the Edinburgh Trade Association, which has since been shown in several provincial towns, was on view. Mr. Charles Kerr presided, and Mr. J. Rutherford Hill, of Edinburgh, and Mr. David Storrar, of Kirkcaldy, were among the visitors present.

Evans's poison-cupboard and a great variety of shop-rounds and dispensing-bottles and accessories were arranged on the side-tables, and among exhibits specially sent to Dundee were sheets of labels from Silverlock, London, William Tait, Glasgow, and Macfarlane & Dickson, Glasgow. Messrs. Kinross & Black, Edinburgh, showed specimens of the shield-label devised by Mr. C. A. Macpherson (*C. & D.*, page 371). These and the Birmingham caution-label were brought by Mr. Hill. Mr. Kerr had also specimens of external remedies distinctively wrapped in coloured paper.

It appeared from the minutes that Mr. Beecham had not acknowledged the complaint regarding his pamphlet forwarded by the Secretary, and the CHAIRMAN thought this was discourteous to the Association.

On the invitation of the Chairman, Mr. J. R. HILL then addressed the meeting in regard to the poison regulations, illustrating his remarks by the specimens in the room.

The CHAIRMAN stated that the attention of several members had been directed to the indiscriminate sale of poisonous and other drugs by auction. He had addressed a question to Mr. Bremridge on the subject. Mr. Bremridge replied that this undoubtedly constituted a public danger, and the person conducting such sale, if unqualified, would render himself liable to penalties under Section 15 of the Pharmacy Act, 1868.

The draft Pharmacy Bill was next briefly discussed. The CHAIRMAN remarked on the lack of enthusiasm with which it had been received, and thought it would be better for the Pharmaceutical Society to concentrate their efforts on the one question of company-pharmacy.

Mr. STORRAR hoped this agitation would influence the future of company-pharmacy; but he would also like to see some action as indicated by Clause 2 taken. For the word "medicines" he would substitute the words "compounded medicines," the sale of which he thought should be restricted to qualified dispensers only.

Ultimately Bailie DOIG moved—

That this meeting, having considered the suggestions for a draft Pharmacy Bill, is of opinion that the Pharmaceutical Council should devote its efforts solely to such amendment of the Pharmacy Acts as would (1) curtail and control the dispensing and sale of drugs by companies of unregistered persons, and (2) secure the sale and dispensing of all medicines or compounded drugs to registered men.

Mr. J. W. RUSSELL seconded, and after some discussion the motion was unanimously adopted.

The CHAIRMAN suggested that the annual meeting in May should be held at Kirriemuir.

### Blackburn Replies to the Lord Chancellor.

At a meeting of the executive of the North-East Lancashire Chemists' Association on Monday evening, Councillor Critchley in the chair, the following resolutions were unanimously adopted:—

(1) That we demand the withdrawal of the Lord Chancellor's Pharmacy Bill, 1899, absolutely.

(2) That, in view of the fact that for thirty-one years pharmaceutical chemists and chemists and druggists have been subject to compulsory examination for qualification, and that the consistent policy of the Pharmaceutical Council has been to increase the rigour of the examinations, we maintain that the use of titles and qualifications by unqualified persons is unjust, and we therefore demand that pharmaceutical chemists and chemists and druggists shall be included in the Companies (Medical Profession) Bill.

(3) That this Association declares that the time has arrived for the Pharmaceutical Council to initiate and press forward a national agitation on the part of registered chemists, with the object of placing the practice of pharmacy in this country on a just basis.

(4) That the aid of the medical profession be sought in obtaining the inclusion of registered chemists in the Lord Chancellor's Companies (Medical Profession) Bill, 1899, and the withdrawal of his Pharmacy Bill, 1899, the effect of which is to stamp pharmacy as a trade pure and simple.

(5) That we urge upon the Federation of Local Associations, all unfederated associations, and every chemist throughout the country the immediate necessity of joining forces in strenuous opposition to the iniquitous and retrograde measure relating to pharmacy which has now passed its first reading in the House of Lords; and we suggest (a) that signed memorials be sent to the Lord Chancellor, pointing out our objections to the Bill, and praying for its withdrawal; (b) that interviews be sought with every local member of Parliament, in order to explain the injustice of our present position.

The first three resolutions were ordered to be sent to the Pharmaceutical Council, the fourth to the Medical Councils (general and local) and Mr. Victor Horsley, and the fifth to the Federation of Local Associations.

### Exeter Association of Chemists and Druggists.

A SPECIAL meeting of this Association was held at the Albert Memorial Museum, on Tuesday, to consider the Bills now before the House of Lords relating to company-trading and pharmacy. The President (Mr. P. F. Rowsell) occupied the chair, and in opening the discussion, explained the nature of the company-pharmacy legalisation Bill, and remarked that he had not the least doubt that all the members would be of his view that that Bill, as brought in by the Lord Chancellor, should be opposed.

Mr. E. LEMMON said the Pharmaceutical Society should oppose the Bill, and pointed out that the House of Lords had already decided that it was legal for a company to do what the clause in the new Bill specially provided for.

Mr. J. HINTON LAKE said the Bill really proposed to empower a company of unqualified men, by simply acquiring the services of a qualified man, to call themselves chemists and druggists.

A discussion ensued on the position of pharmacists as compared with company-traders, in the course of which Mr. LEMMON emphasised his belief that the Bill was recognising, in a statutory form, what had already been brought about by a decision of the House of Lords as a legal tribunal. Alderman GADD eventually moved a resolution, to the effect that the Council of the Pharmaceutical Society be asked to oppose the Lord Chancellor's Bill dealing with pharmacy in every possible way, and to endeavour to get the words "pharmacists" or "chemists and druggists" inserted in the Companies (Medical Profession) Bill. Mr. E. LEMMON seconded the resolution, which was supported by Mr. T. C. MILTON, who said they ought to speak on the matter in a stern voice, because the proposal was really making their position worse. The resolution was carried

unanimously, and it was also decided to send copies of it to the Pharmaceutical Society and to the representative of the city in Parliament (Sir Stafford Northcote, Bart.).

### Bankruptcies and Failures.

*Re* SAMUEL LEWIS HOWARTH, 282 Manchester Street, Oldham, trading as a Chemist.

ON the petition of a creditor this debtor has been adjudicated a bankrupt. The petition states that the debtor has absconded.

*Re* STEPHEN ATKINSON WINN, Shipley, Yorks, Druggist.

THIS debtor has executed a deed of assignment for the benefit of his creditors. Mr. J. W. Howarth, accountant, 1 Park Square, Leeds, has been appointed trustee. The unsecured liabilities are returned at 81*l*. 11*s*. 11*d*., and the assets are estimated to produce 100*l*.

*Re* WALTER BROXAP, 351 The Cliff, Broughton, Salford, Analytical Chemist.

THIS debtor's accounts disclose liabilities 423*l*. and no available assets. The following are creditors:—

|                                    | £   | s. | d. |
|------------------------------------|-----|----|----|
| Broxap, John, Manchester           | 90  | 0  | 0  |
| Dinting Soap and Chemical Company, |     |    |    |
| Hyde                               | 333 | 0  | 0  |

*Re* HARRY BENTINCK BUDD, Charters Towers, Surrey, Patent-medicine Manufacturer and Vendor.

THE Official Receiver at Tunbridge Wells has called a meeting of creditors of this debtor for April 7. He reports that the debtor has filed a statement of affairs which discloses gross liabilities 10,963*l*. 17*s*. 3*d*., of which 10,110*l*. 6*s*. 9*d*. is said to be due to unsecured creditors, 779*l*. 8*s*. 10*d*. due to creditors fully secured (estimated value of securities 1,150*l*., estimated surplus 370*l*. 11*s*. 2*d*). The assets are estimated to produce 8,993*l*. 12*s*. 4*d*. The Official Receiver, in the course of his observations, says debtor attributes his insolvency to loss by speculation on the Stock Exchange, loss in trading as "The Celladema Company," and to law-costs. The debtor states that at the date of the receiving-order he was not in business; but from 1895 until 1897 he was in business as a patent-medicine manufacturer and vendor, and that for one year, until January 19 last, he was manager of a company called the Celladema Company (Limited), at a salary of 250*l*. per annum and a commission of 5 per cent. on profits. The company never made any profits, and is now in liquidation. He lost 6,000*l*. by the company. In 1895 the debtor calculated that he had a free capital of between 20,000*l*. and 30,000*l*., and in October, 1896, he executed an ante-nuptial settlement, under which were settled on trustees for the benefit of his wife during her life the furniture, silver, and household effects at Charters Towers, the sum of 8,000*l*., Whitehouse Farm, now known as Charters Towers, and all his reversionary interest in certain freehold houses and premises, as set out in the first part of schedule to the settlement. At the time of the settlement he had ample means to pay his debts apart from the settled funds. At present there has been no offer of composition or any scheme of arrangement submitted by the debtor. The deficiency account shows an excess of assets over liabilities on March 7, 1898, 30,260*l*. 12*s*. 4*d*.; income or profit from other sources since that date, 3,908*l*. 17*s*. 1*d*.; deficiency, as per statement of affairs, 1,116*l*. 14*s*. 5*d*.; total amount to be accounted for, 35,286*l*. 3*s*. 10*d*. Bad debts, 8,400*l*. 17*s*. 8*d*.; expenses incurred since March 7, 1898, other than usual trade expenses—viz, household expenses of self, 500*l*.; other losses and expenses, personal expenses and travelling, 1,257*l*. 12*s*.; farm, stables, and garden, 563*l*. 9*s*.; rent of shooting, &c., rates, and taxes, 154*l*. 18*s*. 3*d*.; loss on mining shares, 1,709*l*. 7*s*. 2*d*.; building Charters Towers, house, buildings, fittings, &c., 16,700*l*.; losses on Celladema shares and advertising, 6,000*l*.; total amount accounted for, 35,286*l*. 3*s*. 10*d*.



## Legal Reports.

### Sale of Food and Drugs Act.

#### CAMPHORATED OIL.

AT the Marylebone Police Court on March 30, Frederick James Yeatman, chemist, 122 Kentish Town Road, N.W., was summoned for selling  $\frac{1}{2}$  pint of camphorated oil which was deficient in camphor to the extent of 40 per cent. Evidence of purchase having been given, Dr. Stevenson, public analyst, deposed that as a result of his analysis he found only  $12\frac{1}{2}$  per cent. of camphor in the sample instead of 21 per cent. as the B.P. requires. Mr. Yeatman said the offence was committed quite by accident. The article in question was composed of olive oil and camphor, and being short of olive oil he had made up a small quantity in a small bottle, putting in the proper quantity of each ingredient. It so happened that just as he had made it he was called away to the City, and his aged father, not knowing that it had not been properly mixed, sold it to the purchaser in the ordinary way, leaving the camphor settled at the bottom. Dr. Stevenson, recalled, said it was quite possible under the circumstances mentioned that the camphor did settle at the bottom. It took some time for the camphor to dissolve in cold weather. The Magistrate imposed a fine of 20s. with 23s. costs.

Wm. Hy. Aukland, chemist, carrying on business at 46 Camden Road, N.W., was also summoned for selling camphorated oil which had been adulterated with 76 per cent. of mineral oil. The defendant urged that the offence was due to a mistake of one of his assistants. At the time of the purchase there was only 6 oz. of the pure oil of standard strength in the shop, and the assistant, not knowing that there was plenty more downstairs, served the inspector's representative with 6 oz. *plus* a mixture of mineral oil and camphor, which was only sold to veterinary surgeons. It was of the same strength precisely, but much cheaper. The assistant was new to the work and had no idea of the enormity of the offence. Dr. Stevenson said he had not been able to discover any olive oil in the article whatever. He treated it for mineral oil and discovered 76 per cent. The Defendant remarked that that could not be, as he had not such a quantity in the place. The Magistrate (Mr. Curtis Bennett) held that the certificate of the analyst was conclusive, and fined the defendant 40s. with 40s. costs.

#### Yorkshire Relish.

MESSRS. GOODALL, BACKHOUSE & Co. obtained an injunction last week from Mr. Justice Kekewich against May & Co., who did not appear, granting a perpetual injunction to restrain them from selling Yorkshire Relish or any sauce or relish under labels or wrappers so arranged or contrived as to be a colourable imitation of the plaintiffs' labels and wrappers.

## New Companies & Company News.

NATIONAL ASSOCIATION FOR THE PREVENTION OF CONSUMPTION AND OTHER FORMS OF TUBERCULOSIS.—Incorporated. Registered with a membership not exceeding 1,100, each being liable for five guineas. The management is vested in a council. Registered office, 20 Hanover Square, W.

DR. DUNSTABLE'S FOOD COMPANY (LIMITED).—Capital 6,000%, in 20,000 annuity and 100,000 "B" shares of 1s. each. Objects: To acquire and turn to account a certain secret process for the manufacture of a digestive food. (The subscribers include John Hobart, gentleman, of 57 $\frac{1}{2}$  Old Broad Street, E.C.; Seymour Caldwell, gentleman, 13 Birchlin Lane, E.C.; Captain J. S. Bridges, Woodcote, Fleet, Hants, &c.)

W. GREGORY & Co. (LIMITED).—Capital 6,000%, in 51 shares. Objects: To acquire the business carried on as "W. Gregory & Co.," at 51 Strand, W.C., to adopt an agree-

ment with Samuel Smith, and to carry on the opticians, photographers, photographic printers, manufacturers of photographic, chemical, surgical, and scientific apparatus, chemical-manufacturers, &c. Samuel Smith is the permanent governing director. Registered office, 51 Strand, W.C.

SPENCER CHAPMAN & MESSEL (LIMITED).—Capital 300,000%, in 10% shares (10,000 preference). Objects: To acquire the businesses of "Spencer Chapman & Co." and "Chapman, Messel & Co.," and to carry on the business of chemical-manufacturers, ore refiners and smelters, &c. The first directors are Spencer Chapman (chairman), Rudolph Messel (vice-chairman and managing director), FitzRoy K. Chapman, and Daniel H. T. Peploe. Registered office, 36 Mark Lane, E.C.

SAVILLES (LIMITED).—Capital 20,000%, in 1% shares (14,000 6% per cent. cumulative preference). Objects: To acquire and carry on the businesses of chemical-manufacturers carried on by (1) "Saville, Ewens & Co.," at Cedar Street Works, Hulme, Manchester; Albert Works, Bedminster, Bristol; and St. Ann's Steam-works, Henrietta Street, South Tottenham; and (2) Wortley, Cane & Co. (Limited), at Clifford Street Works, Manchester. Registered office, Clifford Street Works, Oxford Road, Manchester.

MAYS & MACKAY (LIMITED).—Capital 5,000%, in 1% shares. Objects: To acquire and carry on the business of wholesale and retail chemists and druggists and oil and colour merchants carried on by Frank W. Mays and John H. Mackay, at 5 and 6 Gun Street and 89 Friar Street, Reading, as "Mays & Mackay." The first subscribers (each with one share) are:—Frank W. Mays, chemist, and Mrs. Mays; John H. Mackay, oil-merchant, and Mrs. Mackay; Sydney Mays, chemist; Charles Lane, merchant; Robert W. C. Strong, fly-paper manufacturer (all of Reading). The first directors are Frank W. Mays and John H. Mackay. Registered office, 5 and 6 Gun Street, Reading.

EAST KENT DENTAL INSTITUTE (LIMITED).—Capital 500%, in 1% shares. Objects: To acquire the business lately carried on at the Medical Hall, High Street, Canterbury, as "Charles Griffith," to adopt an agreement with Arthur Lander, and to carry on the business of extractors, stoppers and fillers of teeth, and manufacturers and fitters of artificial teeth. The first subscribers are:—Arthur Lander, pharmaceutical chemist (250 shares); Herman R. Cole, dental assistant (5); Mrs. Arthur Lander (1); G. F. Andrews, clerk (1); Mrs. John T. Smith (1); John T. Smith, chemist (10); Sidney Harvey, analyst (1) [all of Canterbury]. The first directors are Arthur Lander and John T. Smith. Registered office, Medical Hall, Canterbury.

ROBERT GIBSON & SONS (LIMITED).—Capital 20,000%, in 10% shares. Objects: To acquire the business carried on as "Robert Gibson & Sons," at Carlton Works, Eskine Street, Hulme, Manchester, 1 Glasshouse Yard, Aldersgate Street, E.C., and elsewhere, and to carry on the business of medicated-lozenge manufacturers, chemists' and druggists' confectioners, sugar and other sweets manufacturers, ware-housemen, &c. The first subscribers (each with one share) are:—Robert Gibson, 683 Chester Road, Old Trafford, Manchester, medicated-lozenge manufacturer; Frederick H. Gibson, 564 Stretford Road, Old Trafford, medicated-lozenge manufacturer; Arthur A. Gibson, 123 Wilbraham Road, Chorlton-cum-Hardy, medicated-lozenge manufacturer; Wm. H. Gibson, Silverdale Road, Chorlton-cum-Hardy, medicated-lozenge manufacturer; James H. Ellison, 118 Duke Street, Old Trafford, manager; Frank W. Jones, 57 Oxford Street, Chorlton-on-Medlock, cashier; Richard Newman, 8 Worthington Street, Brooks Bar, Manchester, chemist. The first directors are Robert Gibson (Chairman), Frederick H. Gibson, Arthur A. Gibson and Wm. H. Gibson. Qualification, 500%. Remuneration, as the company may decide.

STEPHEN SMITH & Co. (LIMITED).—The warrants for Stephen Smith & Co. (Limited) 6 per cent preference shares, due April 1, were posted on March 30.

A. & F. PEARS (LIMITED).—An interim dividend for the six months ending December, 1898, on the ordinary shares, at the rate of 8 per cent. per annum, less tax, was paid on April 1.

THE directors of the Farbenfabriken vorm. Friedr. Bayer



& Co., Elberfeld, report that the total profit for 1898 amounts to 3,270,665m., and they recommend a dividend of 18 per cent., carrying 600,000m. forward. Meister, Lucius & Brünig are to pay a dividend of 25 per cent.

**A. J. WHITE & CO. (LIMITED).**—A dividend at the rate of 6 per cent per annum for the quarter ending March 31, 1899, has been paid.

**MARSHALLS (LIMITED).**—The annual general meeting of this company was held at the company's offices, 27 Red Lion Square, London, on March 29. The report showed that the transactions for the year had resulted in a gross profit of 4,352l., and a net profit of 474l. This latter item was carried to the reserve account, making that account amount to 632l.

**BOWMAN, THOMPSON & CO. (LIMITED).**—The annual meeting of this company, chemical-manufacturers, Northwich, was held at the Victoria Hotel, Manchester, on March 28. Dr. Bowman presided. A dividend of 7 per cent. on the preference shares and  $7\frac{1}{2}$  per cent. on the ordinary shares was declared, and, after due provision had been made for depreciation and other contingencies, the sum of 9,790l. 10s. 6d. was carried forward to the current year. The Chairman pointed out that, although the chemical-trade had not been as satisfactory as could be desired during the past year in consequence of foreign tariffs and the unsettled state of the markets, the company had been able to fully maintain its profits.

**CHARLES MUMBY & CO. (LIMITED).**—The first annual meeting of this company took place at Southsea, last week, Alderman R. Barnes, J.P., presiding. The Chairman moved the adoption of the directors' report, which showed that the gross profit, after making provision for depreciation, amounted to 14,550l. 3s. 1d., the net profit, after paying all working and other expenses, being 4,986l. 8s. 11d. A balance of 2,398l. 16s. remained available for division, and the directors recommended the payment of a balance dividend on the ordinary shares for the last half-year of 1898 at the rate of 10 per cent. per annum, less tax, making a total division for the year of  $7\frac{1}{2}$  per cent.; the balance, 465l. 9s. 4d., to be carried forward. The report and recommendations were unanimously agreed to.

## Trade Notes.

THE essential-oil distillery and medicinal-extract factory of the late Mr. W. Holland, Market Deeping, are to be sold by public auction on April 20.

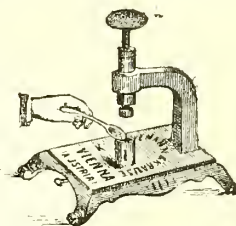
As indicated in an advertisement published in this number, Martindale's ozonic inhalers when sold with the medicament must in future bear the proper medicine-stamp.

MERCK'S "DIGEST" for April is all about tropacocaine (benzoyl-pseudotropine), which is a local anæsthetic more powerful in action and less toxic than cocaine. The *Digest* gives notes on the therapeutics of the remedy, and typical formulæ for prescribing. Copies can be obtained from Mr. E. Merck, London.

MESSRS. WILLIAM EDWARDS & SON, of 157 Queen Victoria Street, have just published a new edition of their catalogue of proprietary articles and druggists' sundries. They prefix to the list proper a complete list of P.A.T.A. protected articles, which now extends to four pages. Net prices are quoted throughout.

THE DAVOL RUBBER COMPANY, Providence, R.I., send us a copy of their illustrated price-list of goods which are sold by druggists. It begins with syringes, of which forty different kinds are figured, and eighteen kinds of fountain-syringes, with a host of individual parts, such as nozzles and bulbs; following these are four pages of illustrations of atomisers, then breast-relievers and nipple-shields, teats, feeding-bottle fittings, and soothers. Next come surgical goods, such as pessaries, urinals, stomach-pumps, and bed-rests. All the engravings are half-tone photographic reproductions taken direct from the goods, and they show how admirable is this method of illustration.

**KAHNEMANN'S TABLET-COMPRESSOR.**—Mr. L. Brager, 356 City Road, E.C., is the agent for this new machine. It is a strongly-made apparatus, elegantly finished in nickel, and is fitted with three sizes of dies. The die screws into the base, beneath which is a lever with spring piston, which fits into a hollow in the die-cylinder. The die-plug is dropped into the latter, and a corresponding upper plug is screwed into the upper piston. The material to be compressed is then placed in the cylinder, and a few forcible pushes of the upper piston compresses the material into a tablet. The illustration gives a fair idea of what the apparatus is like. It sells at 28s.

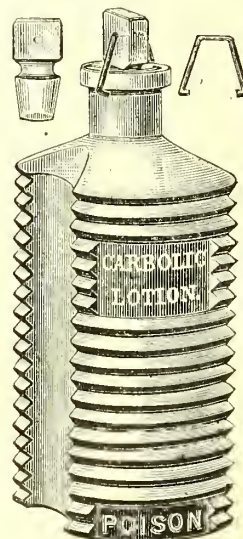


MESSRS. DAVY, HILL & SON, YATES & HICKS are about to offer to the public through chemists a new aperient water called "Esvach water," for which they are the sole wholesale agents. It will recommend itself, partly on its own merits, to which medical testimony is given, and partly on other grounds. It is attractively labelled in square bottles fitted with screw-stoppers. This will please the consumer, while a protecting arrangement guaranteeing to the retailer not less than 50 per cent. profit on the cost will go some way towards ensuring a favourable reception from the trade.

A NEW SNOWDRIFT CATALOGUE comes to us from Messrs. Snowdon, Sons & Co. (Limited), Millwall, E. It contains particulars, prices, and illustrations (when appropriate) of lubricators, lubricants, engine-oils, and various other oils for mechanical purposes, as well as vegetable and fish oils and greases, asbestos packing, sheeting and yarn, hair and cotton beltings, petroleum-jellies, disinfectants, sizes, and Arabian gums. It is a well-printed list.



**POISON-STORING BOTTLE.**—Messrs. H. Gilbertson & Co., St. Andrew's Street, E.C., have bought out a new shop-bottle for poisons. As will be seen from the block, the design differs from the many others we have described of late. The front and back of the bottle are deeply grooved, a space being left on the front for the label. The sides of the bottle are indented, and give a good grip for the fingers when handling it. In addition to making the bottle distinguishable by touch the stopper is fastened by a simple contrivance of wire, which has merely to be pushed on one side to enable the stopper to be removed—an idea which might well be extended to the storage of volatile drugs other than poisons. The bottle is to be made in a variety of colours, but at present it is being made in actinic green and yellow. The design is being registered by Mr. Taffs, Messrs. Gilbertson's manager, and is his invention.



A SELF-INFLATING AIR-CUSHION is the latest novelty. Messrs. F. Schutze & Co., 89 Southwark Street, S.E., have shown us one. The cushions are made of first-class black rubber, with a vulcanite screw-nozzle. On squeezing the air out of the cushion and placing it on a table it inflates itself quicker than one could blow air into it in the usual



tedious way, and the nozzle has then only to be made tight by screwing. There are no springs or anything of that nature to go out of order, the cushion being simply moulded to the full shape, so that it must initiate itself. The cushions are supplied in six sizes, the smallest—12 inches diameter—costing 9s. 6d. This is a little dearer than the other kind, but the difference is not objected to by the class of customers who indulge in air-cushions.

## Trade-Marks Applied for.

Anyone who objects to the registration of a trade-mark must address the Comptroller-General, Patent Office, Chancery Lane, W.C., within a month of the date of publication.

(From the "Trade Marks Journal," March 22, 1899.)

Design of a loving-cup; for chemical substances for agricultural, horticultural, and other purposes, and for medicated soap. By W. Gossage & Sons (Limited), Widnes, soap-manufacturers. 219,658 and 219,659.

Combination of devices (the essential particular) representing Atlas supporting the globe; for a sheep-dip. By the Atlas Preservative Company, 49 Queen Victoria Street, E.C., chemical-manufacturers. 220,396.

"SOMATOSE"; for a pharmaceutical product. By Farbenfabriken vorm. F. Bayer & Co., Elberfeld, Germany, manufacturers. 215,685.

Combination of devices (the essential particular) representing a label for "Elliman's Hygienic Embrocation" and directions in French, German, and Russian "To be applied as instructed by the chemist"; for an embrocation. By Elliman, Sons & Co., Slough, embrocation manufacturers. 219,009.

Device of a spur and the word "SPURR" (the essential particulars); for chemical substances for use in medicine and pharmacy. By H. E. Spurr, Huddersfield, chemist and druggist. 220,764.

"PEDIGREE"; for chemical substances for use in medicine and pharmacy. By J. Crosfield & Sons (Limited), Warrington, soap-manufacturers. 220,924.

"PAH"; for a paste for sticking-purposes. By J. H. Smith, Newark, chemist. 219,950.

Device of Lincoln Cathedral and the words "BIG TOM" (the essential particulars); for fruit-crystals, crystal jellies, custard-powders, and fruit-essences. By R. B. Huggins, Wainfleet, chemist. 218,787.

"SCIMITAR"; for perfumed soap. By C. Thomas & Brothers (Limited), Bristol, manufacturers. 220,523.

"RAINBOW"; for scouring-soap. By J. Crosfield & Sons (Limited), Warrington, soap-manufacturers. 214,947.

(From the "Trade Marks Journal," March 29, 1899.)

"PANAK"; for photographic sensitising-solution. By Pierre Lacroix, Paris, manufacturing photographic chemist; and O. F. Lehmann, Paris, manufacturer of photographic specialties. 218,906.

Picture of a dodo; for chemical substances. By Duggan, Neel & McColl (Limited), Millwall, E., oil and colour merchants. 220,369.

"BIRASSOL"; for a sensitising-liquid. By O. Schölzig, 9 New Broad Street, E.C., merchant. 220,604.

"KACHIN"; for photographic developers. By J. J. Griffin & Sons (Limited), Lincoln's Inn Fields, manufacturers. 220,745.

"HODSIM"; for chemical substances. By Hodgson & Simpson, Wakefield, soap-manufacturers. 220,549 and 220,550.

"PEDIGREE"; for chemical substances for agricultural, veterinary, and other purposes, and for perfumery and toilet-articles. By J. Crosfield & Sons (Limited), Warrington, soap-manufacturers. 220,990 and 220,814.

"CASTORIA" (no claim is made to the exclusive use of the word "Castor"); for chemical substances for use in medicine and pharmacy. By the Centaur Company, New York, U.S.A., manufacturing chemists. 217,694.

"THIOCOL" (no claim is made to the exclusive use of the word "Thiol"); for chemical substances for use in medicine and pharmacy. By F. Hoffmann, La Roche et Cie., Bale, Switzerland, manufacturers. 219,605

Facsimile signature, "DANIEL MOTHERWELL" (the essential particular); for an ointment. By D. Motherwell, Glasgow, collector. 220,030.

Device (the essential particular) of a young negro's head; for ointments and salves. By Gibson & Miles, Bolton, patent-medicine makers and vendors. 220,069.

Device (the essential particular) of four labels; for baking-powder. By Newball & Mason, Nottingham, manufacturing chemists. 220,328.

"CEPHALA"; for perfumery and toilet-articles. By E. W. Tayler, Sherborne, Dorset, pharmaceutical chemist. 219,241.

"AMORETA"; for fancy perfumed soap. By La Compagnie Amoreta, Paris, soap and perfumery manufacturers. 219,581.

Picture of lady spraying perfume, and the word "Rono"; for perfumery and toilet-articles. By La Société Chimique des Usines du Rhône, Lyons, France, manufacturers. 220,054.

"HONEY-GUIDE"; for perfumery and toilet-articles. By E. Terraneau, High Holborn, W.C., manufacturer. 220,224.

## Recent Patents.

THE following are abstracts of recent specifications of inventions for which English patents are applied for. The complete specification of any of them can be purchased through any money-order office where postcards, price 8d. each, for ordering patents are on sale. The number of the patent and year are given at the end of each abstract:—

**Dropsy-medicine.**—J. R. Belts, Hucknall Huthwaite, and H. Thompson, Mansfield, prepare medicines for dropsy, which they have claimed protection for. The "medicine" is composed of the following ingredients:—

|                       |     |     |     |               |     |
|-----------------------|-----|-----|-----|---------------|-----|
| Saltpetre             | ... | ... | ... | 2             | dr. |
| Carbonate of soda     | ... | ... | ... | 1             | dr. |
| Powdered ipecacuanha  | ... | ... | ... | 5             | gr. |
| Tincture of digitalis | ... | ... | ... | 2             | dr. |
| Camphor-water         | ... | ... | ... | $\frac{1}{2}$ | oz. |

The pills are—

|                    |     |     |     |     |     |
|--------------------|-----|-----|-----|-----|-----|
| Blue pill          | ... | ... | ... | 10  | dr. |
| Powdered squills   | ... | ... | ... | 400 | gr. |
| Powdered digitalis | ... | ... | ... | 200 | gr. |

"Mixed and formed into pills."

The doses of the mixture and pills are not stated. (18,567, 1898.)

**Embrocation.**—Miss M. E. Marcer, Coventry, claims for an improved embrocation prepared as follows:—

|                 |     |     |     |    |       |
|-----------------|-----|-----|-----|----|-------|
| Acetum          | ... | ... | ... | 40 | parts |
| Spt. terebinth. | ... | ... | ... | 4  | "     |
| Spt. vini rect. | ... | ... | ... | 1  | "     |
| Spt. camphoræ   | ... | ... | ... | 1  | "     |
| Ovi vitelli     | ... | ... | ... | 4  | "     |

The whole to be placed in a suitable machine and well incorporated.

(19,655, 1898)

**Medicinal Wash or Lotion.**—M. Tuite, Jewin Street, E.C., and W. A. Smith, Slough, claim for the following. They say their "invention relates to a new and improved composition of the nature of a wash or lotion for application to the human skin, for beautifying and clearing it, and for the purpose of producing a healthy complexion and removing sunburn and pimples":—

|                      |     |     |     |               |     |
|----------------------|-----|-----|-----|---------------|-----|
| Zinc oxide           | ... | ... | ... | 1             | dr. |
| Calamine             | ... | ... | ... | 1             | dr. |
| Precipitated sulphur | ... | ... | ... | $\frac{1}{2}$ | dr. |

Mix with—

|            |     |     |     |   |     |
|------------|-----|-----|-----|---|-----|
| Lime-water | ... | ... | ... | 1 | oz. |
|------------|-----|-----|-----|---|-----|

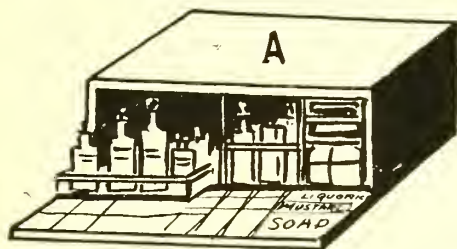
And add—

|                               |     |     |     |   |     |
|-------------------------------|-----|-----|-----|---|-----|
| Glycerin                      | ... | ... | ... | 2 | dr. |
| Spirit of wine                | ... | ... | ... | 2 | dr. |
| Liquid extract of witch-hazel | ... | ... | ... | 2 | dr. |
| Rose-water                    | ... | ... | ... | 4 | oz. |

(20,022, 1898.)

## Pharmacy in the French Navy.

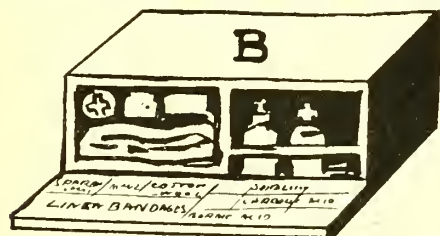
THE recent activity in the French dockyards has extended to such minor details as the work of caring for the sick and wounded on board. The new and uniform medicine-chests for the French navy, designed by Dr. Rouvier, Chef du Service de Santé de la Marine, at Cherbourg, and the adoption of which has already been recorded in the *C. & D.*, were described by the inventor in a recent issue of the *Archives de Médecine Navale*. Their use was prescribed by a French Government circular, dated August 3, 1898, but this order only came into actual operation last New Year's day. There are really only two types. Both are identical in size and shape; a deal box, measuring about 2 feet by 3 feet by 1 foot high; one (marked M<sup>a</sup>) contains medicaments, and the other (P<sup>a</sup>) "pansements," or dressings. The "reserve"



cases (M<sup>b</sup> and P<sup>b</sup>) are practically a repetition of M<sup>a</sup> and P<sup>a</sup>. The main idea in the construction of these chests has been (1) to place all the contents within view and within easy reach of hand; (2) to construct a chest which, when open, will occupy but little more space than when closed. Large lids, cupboard doors, drawers, &c., all require space to be opened, and space is a valuable item on shipboard. In Dr. Rouvier's chests, therefore, the top remains always closed, but the two sides are hinged. A couple of brass hooks are unclasped, the side falls, and the contents are disclosed. The surgeon is further aided in his work by the fact that a plan of the position of each bottle is gummed on to the inside of the flap, which thus lies open for easy reference. On some boats (the *Dunois*, for example), where the pharmacy is very small, a special revolving arrangement is fitted up to facilitate the turning round of the chest.

The pharmacy chest (M<sup>a</sup>) contains the usual medicaments shipped on French men-of-war. Half the medicaments are in the front, and half in the back portions, so that each cupboard, so to speak, is only a foot deep. But to enable the bottles at the back to be easily reached, the whole are placed in a drawer (a mere tray with a slight frame), each bottle being kept in position by wires which divide the tray into so many squares of irregular size. The arrangement is extremely simple, one might almost say primitive, but it is quite efficient.

The chest for dressings (P<sup>a</sup>) is exactly the same size as M<sup>a</sup> and of simi'ar construction, except that the tray arrange-



ment is dispensed with, so far as the gauze, cotton-wool, and sticking-plaster are concerned, for the packets of these can, of course, be easily taken out and replaced. Bottles of boric and carbolic acid, permanganate of potash, and other antiseptics, are included in case P<sup>a</sup>, and it should be noted that several small bottles of each disinfectant are provided instead of one large one, with a view of preventing waste. Each bottle also bears on the label the date of refilling. The pair of chests M<sup>a</sup> and P<sup>a</sup> are estimated to suffice for 100

men for six months. A few bulky objects which do not require renewal are kept apart. A P<sup>a</sup> and P<sup>b</sup> chest is placed in the sick bay when the decks are cleared for action, or in the ambulance tent of a landing party. Each complete chest is divided into two parts, the lower portion containing the articles requiring constant renewal, the upper part the permanent material and objects that are rarely used, such as silk, catgut, atropine, emetine, &c. It is, therefore, practically the lower portion of the chest only that requires to be periodically refilled, and of these a certain number are shipped according to the strength of the crew, thus:—

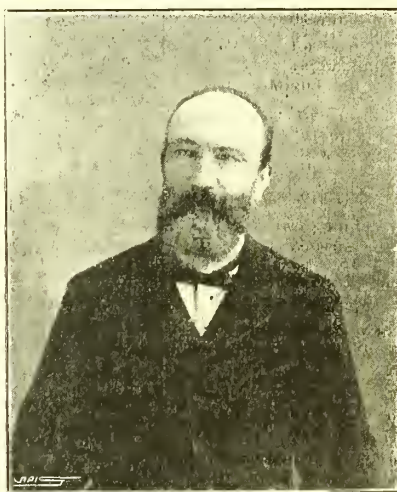
|                             |     | Medicaments    |                | Dressings      |                |
|-----------------------------|-----|----------------|----------------|----------------|----------------|
|                             |     | M <sup>a</sup> | M <sup>b</sup> | P <sup>a</sup> | P <sup>b</sup> |
| For a crew of 50 to 150 men | ... | 1              | 0              | 1              | 0              |
| " 150 to 300 "              | ... | 1              | 1              | 1              | 1              |
| " 300 to 400 "              | ... | 2              | 1              | 2              | 1              |
| " 400 to 500 "              | ... | 2              | 2              | 2              | 2              |
| " 500 and over              | ... | 2              | 3              | 2              | 3              |

On ships destined for actual warfare the number is doubled, but all the extra drawers are of the "reserve" pattern, M<sup>b</sup> and P<sup>b</sup>.

Torpedo-boats and such small craft, with their crew of six to twenty men, will probably simply ship special cases in conformity with their modest requirements. But with this exception, every vessel of the French Navy will have chests of identical arrangement, and the surgeon coming from another vessel will at once be able to lay his hand on what he requires.

### THE CHIEF NAVAL PHARMACY.

All the medicaments for the French naval hospitals at the great ports (which are five in number) have to pass through the chief naval pharmacy at Paris, situated on the Quai de Billy, nearly opposite the Eiffel Tower. Some time ago Admiralty supplies were delivered direct to the ports, but as these were generally obtained from Paris



M. BAYAY,

Chief Pharmacist of the French Marine at Paris.

houses, and as a sample from each parcel had to be returned to the Quai de Billy for examination, the present system was found more convenient. Now the naval hospitals at Toulon, Brest, Cherbourg, Rochefort, and Lorient, send their orders for drugs and supplies direct to the Ministry of the Marine at Paris, whence formal orders are issued to the contractors. All goods are delivered at the chief naval pharmacy, and are carefully examined and analysed by Principal Pharmacist Durand or his assistants before being forwarded to their



destination. This applies to clothing, cooking-utensils, new foods, and other supplies, as well as drugs.

#### RANK IN THE FRENCH NAVAL PHARMACY-CORPS.

Since the post of Pharmacy-inspector (who ranked as general) was abolished about nine years ago, the pharmaceutical officers are as follows:—Chief pharmacists rank as colonel, principal pharmacists rank as major, first-class and second-class pharmacists as captain and lieutenant respectively. I speak of military and not naval rank, for some of



M. CHARLES DURAND,

A Principal Pharmacien of the French Marine, Director of the Chemical Laboratory of the Admiralty, Paris.

these grades, major for example, have no equivalent on shipboard. Since the French Colonial Department was separated from the Marine ten years ago, the naval pharmacy-corps, which formerly mustered 81 of all ranks, has been reduced to a strength of 54, as follows:—Six chief pharmacists (1 at Paris, and 1 at each of the great naval ports); 8 principal pharmacists (1 at Paris, 2 each at Toulon and Rochefort, 1 each at Brest, Lorient, and Cherbourg); 15 first-class and 21 second-class (distributed among the five ports). Four other second-class pharmacists abroad. Two are at present on a special mission in China, two more are "lent" to the Colonies (Soudan and Tahiti).

#### HOSPITAL-SHIPS.

The French Navy pharmacists go to sea in hospital-ships only. When the Colonies and Marine were under the same Minister some very fine and well-fitted troopships plied between France and Indo-China. They took out fresh troops, and as there were always invalids among the home-comers a hospital was fitted up, and they carried a pharmacist. They have now been converted into provision-ships, and the Colonies charter boats themselves to bring back the invalids. During the Madagascar expedition some of the old ships, one a fine vessel of 6000 tons, were sent out as floating hospitals. But, as they soon filled up, they came back to France to discharge and return. On board the men-of-war there is no regular pharmacy: many have a small room, some a mere cupboard.

#### HISTORY OF FRENCH NAVAL PHARMACY.

In 1686 Colbert's scheme of a naval station and arsenal at Rochefort was carried into effect. In this marshy district fever raged every summer, and the *caniculaire* (dog-days) epidemic was regarded as inevitable. The mortality

amongst the workmen was very great, and a special hospital was provided at Tonnay-Charente for the fever-patients. This was transferred to Rochefort in 1683. Some apothecaries opened shop in the new town, and one of them, Morisseau by name, was in 1672 specially attached to the naval service, and was later on charged with the supply of drugs to the Naval Hospital.

The decree of 1683 provided that a master-apothecary should serve the new hospital at Rochefort. He was "to open a shop like that existing at the Invalides (Paris), in which he shall compound all remedies," and he was to furnish the Governor with a list of the quantity of medicaments necessary for the service, and "fill the medicine-chests according to the presumed duration of the campaign." He was to have apartments for himself and his two assistants (*garçons*) in the hospital. Morisseau was naturally appointed to this post. The year after the Sisters of St. Vincent de Paul made their appearance in the hospital. They were not only to rule the roast in the kitchen, but were "to have the entire charge of the pharmacy, to compound all medicaments, drugs, sirops, and jellies (*confitures*) necessary. As to the ointments, if they are not able to make them they are to ask the apothecary or surgeon to do so, and to furnish him with what is necessary." The administration of clysters and the placing of leeches were magnanimously "reserved for the apothecary and surgeon." The fact is that these ladies practically drove the apothecary (as an official) out of the naval hospitals for a century. In 1760 the brotherhood of St. Jean de Dieu took over the Brest and Rochefort naval hospitals, as well as the galley-slaves' hospital (now naval hospital) at Toulon, and, though complaints were made of their want of skill in dispensing, the religious orders practically monopolised this work until the Revolution. But even at that epoch in the Royalist West of France the Republican Terrorists failed to disestablish the Sisters. They were compelled to change their dress, but they held their position. At present all naval hospital nurses are still Sisters of Charity, though they no longer have their places in the pharmacy. The conscription of pharmacists in 1793-94 was applied to the navy as well as the army, and, roughly speaking, the naval pharmacist in his present character as a commissioned officer made his appearance under Napoleon I.

The present basis of organisation may be said to date from November 29, 1815, when Napoleon's departure for St. Helena reduced European armaments to a peace footing. The strength of the French Naval Sanitary Corps was fixed at 210 surgeons and 40 pharmacists, the latter being ranked as follows:—Eight first class, 10 second class, 22 third class. In 1849 the third class was abolished, and the second class increased to 14 in number.

#### TRAINING OF NAVY PHARMACISTS.

For the branch schools at Brest, Rochefort, and Toulon candidates must prove (1) French birth or naturalisation; (2) 17 years of age (minimum); (3) proper vaccination; (4) physical suitability; (5) B.A. degree; (6) good character. At these schools no uniform is worn; the pupils board and lodge outside the schools, and are wholly free outside the official hours for study. At the end of three years (or one year if they have previously served two years in a pharmacy) they have an examination to pass (*validation de stage*), and can then present themselves for the "entrance examination" for the Bordeaux school. This examination is held yearly at each of the three ports, and includes natural history, German or English, chemistry and physics, the Codex, botany, and pharmacy. Candidates must be between 18 and 24 years of age. Successful candidates are required to sign an engagement to remain three years at the Bordeaux Naval Sanitary Service School, and to serve in the navy for six years after receiving their commission. Once at Bordeaux they are subject to military discipline, wear uniform, and live at the school. They study at the neighbouring faculty. They pay 28*l.* for board and lodging yearly, and an additional lump sum of 52*l.* for uniform, books, &c. They usually spend a year at Toulon (Ecole d'Application Navale) to complete their knowledge of the practical part of their profession, and are then drafted to the port hospitals as vacancies occur. As in the army, the young fellows do the dispensing, and the higher officers are really analytical chemists.



## Marriages.

IRVIN—WEIGHTMAN.—At Scotswood, Northumberland, on March 29, W. S. Irvin, eldest son of Mr. W. G. Irvin, chemist, North Shields, to Mary, daughter of Mr. J. Weightman, Scotswood.

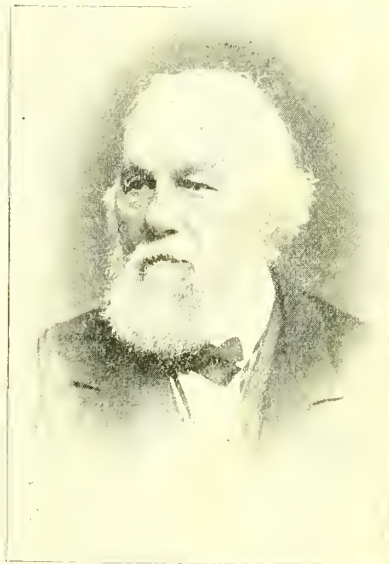
ROSS—BRUCE.—At Mathers' Hotel, Dundee, on March 29, Alexander H. Ross, chemist and druggist, to Jane Anderson, daughter of Mr. T. Bruce, Airlie Terrace, Dundee.

## Deaths.

CARRUTHERS.—At Dumfries, on April 3, Mr. Richard Birrell Carruthers, chemist and druggist. Aged 72. The deceased gentleman, who had long been a conspicuous and influential personality in Dumfries, was a native of Blackburn, but during his infancy his family removed to the Border district, where his childhood was spent. He was apprenticed to the late Mr. Halbert, of Annan, and in 1843 established himself in High Street, Dumfries, in succession to the late Mr. Irving. These premises he occupied until about six years ago, taking his brother-in-law, Mr. William Allan, into partnership in 1859. Besides pharmacy proper, the firm developed an important side-line in the manufacture of chemical manure, besides holding the agency in Scotland for McDougall's sheep-dips and other preparations. To such proportions did this trade attain that an office was taken in Glasgow, and the firm of Carruthers, Son & Co. was established, with the eldest son of the late Mr. Carruthers as the other managing partner. Deceased gentleman was a member of the Town Council for nine years prior to 1868, and was a bailie for three years. He was also a member of the School Board, and an elder of Dumfries Parish Church for forty-five years. In politics Mr. Carruthers was a militant Conservative, and for a long series of years was President of the Dumfries Conservative Association. In the field of sport he was well known as an enthusiast in coursing. He was Hon. Secretary of the National Coursing Club and of the Border Union Coursing Club, and bred many celebrated and successful greyhounds. He leaves a widow, six sons, and four daughters.

HILL.—On March 30, at his residence, Southfield, Clapham Park, Surrey, Mr. Arthur Stephen Hill, pharmaceutical chemist. In his 97th year. Mr. Hill was the founder of the wholesale drug-firm, A. S. Hill & Son, now Davy, Hill & Son, Yates & Hicks, Park Street, Southwark, S.E. He once told us that he was "a true Kentish man." He was born west of Rochester—that is to say, in Greenwich parish—on July 1, 18. His father was a partner in the firm of Baring, Mair & Co., and for many years was associated as a partner with Mr. Charles Baring, of Exeter, a brother of Sir Francis Baring. Mr. Hill's godfather was Sir Arthur Pigott, the Attorney-General. He was educated in a preparatory school in Kent Road and at the Camberwell Grammar School. In his fifteenth year—viz., in April, 1817—he was apprenticed to White & Caunterley, wholesale and retail chemists, 22 Ludgate Hill. For his initiation into the art and mystery of pharmacy Mr. Hill paid a premium of 400*l*. He became an adept druggist. The business he was in had been founded by Dalmahoy at 12 Ludgate Hill in 1755, and White & Caunterley had acquired it in 1812. Mr. Hill remained with them until 1824, when he and a shopfellow called Gascoyne started business as wholesale druggists in Little Britain, the trading name being Gascoyne & Hill. The senior partner died within a year, and in 1826 Mr. Hill absorbed White & Caunterley's business into his own, becoming White, Caunterley & Hill, under which name he traded until 1836. In 1849 he took his son, Mr. Arthur Bowdler Hill (now President of the Drug Club), into partnership, and the firm continued to trade in Little Britain as A. S. Hill & Son until 1872, when Mr. Hill retired, and the business was removed to Southwark. Since then the business of Davy, Yates & Hicks has been amalgamated with it, and two of Mr. A. B. Hill's sons and Mr. Hicks are in the partnership. The death of Mr. Joseph Sydney Lecher left Mr. Arthur Stephen Hill "the father of the drug-trade," and

we should think there is no one now living, except, perhaps, Mr. George Tonge, whose knowledge of the drug-trade goes back so far as Mr. Hill's took him. Mr. Hill gave us in 1891 and 1897 records of the London drug-trade, which we published, and which will prove invaluable to the future historian. In the early thirties Mr. Hill had taken his place in London as a leading member of the wholesale drug-trade, and he was one of those who then formed the "Druggists' Club," which came to an end in 1846, and was revived some twelve years ago under the presidency of the late Mr. R. B. Barron, and of which Mr. Hill was an honorary member. He also took an active interest in the Pharmaceutical Society from its inception, and attended the famous Crown and Anchor meeting in 1841, but for some reason escaped being a founder, although he subscribed to the Society from 1842 up to the present year. During his long retirement Mr.



Hill has kept excellent health, and until quite recently took an active interest in the Salters' Company, of which he was the "Father." His association with the Company commenced with his apprenticeship in 1817, when he was formally bound as an apprentice in the old hall of the Company to James White, the Master of the year being Matthias Wilks. In 1824, at the end of seven years' apprenticeship, he was admitted to the freedom; in 1829 he was elected on the livery; in 1852 he was chosen as a member of the court; and in 1858 was appointed Master of the Company. He was a man with a remarkable memory, and vividly described events which happened in the first decade of the century—Nelson's funeral, for example. He was a highly-respected citizen of London, and for thirty years served as a special juror. Mr. Hill was buried in the family vault at Norwood Cemetery on Tuesday. Mr. Michael Carteighe attended as representing the Pharmaceutical Society.

MAYGER.—On March 24 at Regent Square, Northampton, Mrs. Mayger, wife of Mr. W. D. Mayger, chemist and druggist.

SEWELL.—On April 2, at Frizinghall, near Bradford. Mr. Edward Augustus Sewell, chemist and druggist. Aged 30.

TALBOT.—On March 30, at the residence of his daughter, 17 Park Road, Seacombe, Cheshire, John Hind Talbot, pharmaceutical chemist. In his 91st year. Mr. Talbot was some years ago a notable Liverpool chemist. He carried on business in St. James's Street for half a century. A man of wide reading and gentlemanly bearing he won for himself many friends, and though retired into private life there twenty years he continued to take much interest in trade-affairs. Indeed, notwithstanding his advanced age, his energy and vigour of mind remained unimpaired to the end.

TRIMMING.—On March 18, Mr. A. J. Trimming, chemist and druggist, Alton, Hants. Aged 53.





of disturbing the fool's paradise in which a section of the pharmacists of Great Britain were settling themselves. Having succeeded by a lucky chance in getting through Parliament in 1898 a little measure of no public concern whatever, some of the more impressionable of our colleagues leaped to the conclusion that legislation was a fairly easy business, that senators were waiting obsequiously to do our bidding, and that the only question we had to arrange among ourselves was how moderate we need be in our demands. An exceptionally promising opportunity had presented itself in the recognition by the Lord Chancellor of the anomalous condition of the law created by the invasion of pharmacy by joint-stock companies. The only possible

candidate at the coming Council election. It is not for us to apportion the credit or the discredit of these "Suggestions." All we know is that the Council were unanimous. We do not know whether the suggestions were ever discussed, nor even if they were understood, by members of the Council. All we know is that they all voted for them, and if their policy had turned out even fractionally successful all would have been eager to share in the resulting glory. The blunder is now obvious to every one capable of seeing, and the men who made it, whoever they may be, ought to be politely dismissed from the service of pharmacy as opportunity presents itself. They might have had the one excuse that they allowed the interests of the Society to influence

### PHARMACISTS OF GREAT BRITAIN APPEAL TO THE HOUSE OF LORDS.

THE Pharmacy Act, 1868, declared it to be "expedient for the safety of the public that persons keeping open shop for the retailing, dispensing, and compounding of poisons, and persons known as chemists and druggists, should possess a competent practical knowledge of their business," and consequently provided for the examination and registration of all such persons. But in the case of the Pharmaceutical Society of Great Britain *v.* the London and Provincial Supply Association (Limited), it was finally decided by the House of Lords on July 22, 1880, that the Act did not so far apply to artificial persons, such as incorporated companies, as to prevent them from keeping open shop for the sale of poisons. The consequence of that judgment has been that many hundreds of companies have been formed with the express object of enabling unqualified persons to carry on the business of chemists and druggists. Persons who after one or several attempts have failed to satisfy the duly appointed examiners have in a great number of instances registered at Somerset House (six other members of their families or friends being nominally associated with them), and have then carried on business as chemists and druggists, clearly in violation of the expressly stated purpose of the Pharmacy Act.

In July, 1898, when a Pharmacy Acts Amendment Bill was before the House of Lords, the Lord Chancellor expressed a desire that the scope of the Pharmacy Acts should be extended so as to deal with companies. The late Lord Herschell supported this view, and subsequently the Lord Chancellor drafted a clause to accomplish the purpose he had in view.

This Amendment to the 1898 Bill was for the time withdrawn, and the Pharmacy Acts Amendment Bill (which dealt only with the internal organisation of the Pharmaceutical Society of Great Britain) passed. Now, however, the Lord Chancellor has framed his proposal more definitely in favour of companies than before, and has presented it in the form of a Bill to amend the Pharmacy Acts, and this Bill and another one entitled the Companies (Medical Profession) Bill at present await second reading in the House of Lords. By the latter his Lordship proposes to disentitle companies from practising as physicians, surgeons, dentists, or midwives, but by the Pharmacy Bill he would explicitly legalise their assumption of the title and functions of pharmaceutical chemists and chemists and druggists.

In an explanatory memorandum to this Bill it is pointed out that it is obvious that companies cannot pass the examinations necessary to qualify as pharmaceutical chemists and chemists and druggists. It might have been (See over.)

negotiating party on behalf of pharmacists at the moment was the Council of the Pharmaceutical Society of Great Britain, and from past experience it might seem that we could at least rely on their prudence. Some little diplomacy, some proportion of reasonableness, some recognition of circumstances were required for the occasion, and none of these in any degree whatever was displayed. The Blackburn Brass Band led the way, and to the amazement of level-headed chemists all over the country the Council tamely followed, and made themselves responsible for the extraordinary "Suggestions for a Draft Bill," which will be their lasting monument, and should ensure the defeat of every member of the present Council who offers himself as a

them in preference to the interests of the trade. We have ourselves explained their policy by presuming that they saw "guineas" in it. This allegation, they assure us, is baseless. They seek members, not guineas, says one of their spokesmen—a distinction rather too fine for us. Even from that point of view it might have proved the wiser proceeding in the long run to have guided the forces of the agitators instead of yielding to them. The chemists who have this year paid their guineas expecting that they were buying the reversion of a monopoly in the sale of medicines will find a better use for 21s. next year.

But the crisis is of more importance than the Council. The Lord Chancellor's Bills are before the House of Lords,



and if they are not opposed by those whom they concern they will pass, and company-pharmacy will be established among us. There will be strong influences on their side; and the most powerful of those bodies who might have been our allies have been bought off by the Companies (Medical Profession) Bill. Not many companies are striving to practise as physicians, surgeons, or midwives, and even the dentist companies are as yet comparatively few and isolated. They may sympathise with us, but having the promise of what they want they will not give us much substantial aid. Pharmacists cannot oppose the principle of the Companies (Medical Profession) Bill, though they have a fair right to press for its amendment by seeking to be comprehended in

be promptly written. Accompanying this article we print an appeal to members of the House of Lords expressing the views we have always advocated. We will send copies of this appeal to any chemist who may be willing to make use of them in the way we have indicated. We, however, call attention to the suggestion contained in the penultimate paragraph that companies might be allowed to carry on the business of a chemist and druggist provided all their directors are qualified. This provision meets every reasonable objection to our claim, but we cannot expect that all who write will agree exactly with that view. Therefore we ask every chemist who is willing to exert himself to write to some peer in any case, and only to use our reprint if it fairly expresses his opinions.

thought that the conclusion should have been equally obvious that therefore companies should be disentitled to assume those titles or to keep open shop for selling those substances (poisons) which the Act of 1868 says only duly qualified persons may sell. But the Lord Chancellor's conclusion is that any company may style itself pharmaceutical chemist or chemist and druggist if it employs a pharmaceutical chemist or chemist and druggist in its business. As the Bill stands it is probable that the employment of a single chemist and druggist would justify a company in describing itself as a chemist and druggist at a hundred separate shops. But, however this may be, it is clear that qualifications which have attained credit and honour and substantial value by the work and patience of two or three generations of craftsmen are by this measure offered to anybody who cares to buy them.

Pharmaceutical chemists and chemists and druggists of Great Britain appeal to members of the House of Lords not to sanction this most unjust project of legislation. They are not asking for favour, but simply for fair play. Men who have spent time and money in acquiring a qualification which the law has said should carry with it certain privileges do not see why these should be taken from them because some one else wants them. If the Lord Chancellor can show good reason why companies cannot be altogether prevented from interfering with pharmacy, as he would prevent them from interfering with medicine and surgery, let him at least provide that no company shall carry on the business of a chemist and druggist unless all the directors of that company are properly qualified. It is on the real managers of a business (who in the case of companies are the directors) and not to the employes that the public has to depend for the efficiency of its service and for its safety. This was appreciated by the Parliament of 1868, and no one can tell how much good has resulted from the Act then passed. It is easy to foretell that if the Lord Chancellor's proposition should be adopted the profession of pharmacy in Great Britain, which is of greater service to the public than his Lordship may be aware of, will before long be extinct.

The Lord Chancellor compares the position of companies with that of executors of deceased chemists and druggists. It can hardly be necessary to point out the distinction. In the latter case we have a concession of an essentially temporary character; in the former we see encouragement offered to a company formed for what would otherwise be an unlawful object. The law, recognising that it would be unjust to compel the sacrifice of a business on the death of its proprietor, allows executors of a deceased chemist to carry on his business, but insists on the employment of a qualified manager. It is monstrous to make this reasonable concession an apology for granting to persons who have done nothing to earn it, and have acquired no vested interest, a similar right.

it. But the Lord Chancellor's Pharmacy Bill is one for which there is no moral or legal justification, and we do not believe it will live through a second reading in the Upper House if the case for pharmacists can have a hearing. It is of the highest importance, however, that our arguments should be brought before individual peers. There is a better chance of getting the principle of the Bill discussed by the Lords than by the Commons, and discussion can only be good for us. A great many chemists throughout the United Kingdom (for Irish pharmacists are indirectly, if not directly, affected) are in a position to communicate with effect with one or more members of the House of Lords. Such letters would be most useful, and we hope many will

#### The Lord Chancellor a Drug-Store Shareholder.

"Halsbury, Lord, Peer," figures on the register of shareholders in Lewis & Burrows' Drug-stores (Limited), as the owner of 100 Preference shares. "Halsbury, Lord, Peer," is in business as the Lord Chancellor of England, and though we are very far from suggesting that his trumpery interest in this concern has influenced his action, it is unfortunate for him that his legislative activity and a little part of his pecuniary prospects tend in the same direction. The fact that he is a shareholder in a company which has not, so far, been remarkably successful explains how he acquired his pharmaceutical education.

## A Good Side-line.

To one of our earliest DIARIES (1870) Professor Attfeld contributed an article entitled "Plain Directions for Testing Urine." Since then, and especially during the past decade, the importance of urine-testing as an adjunct to pharmacy has been urged by those who have proved its value. But no one so far has attempted to deal with the subject in a separate book specially intended for chemists and druggists, although the subject is treated as a chapter in several manuals of chemistry and pharmacy. We have thought it sufficiently important for separate treatment, somewhat on the lines laid down by Professor Attfeld in 1870, when he commenced our DIARY article thus:—

Medical practitioners not unfrequently appeal to pharmacists for chemical assistance in testing urine. The questions commonly propounded are of the following character:—Is the sediment in a sample of turbid urine due to urates (often termed lithates), to phosphates, or to uric acid? Does a specimen of clear urine contain albumen or sugar, or neither? In most cases one or other of these substances will be found in abnormal urine; their detection is so easy that an operator making a mistake in reference to either would be unworthy of the name of chemist.

Nowadays patients, as well as their medical advisers, appeal to the pharmacist for assistance in this matter, and while some in the trade do not need advice as to how they should go about the analysis of a sample of urine, the large majority have the haziest notion as to what they should do when a sample is presented to them. It is for such that we are publishing on Monday next a small handbook entitled "Practical Methods of Urine-analysis." Its chief merit is that it is written by a dispensing-chemist for dispensing-chemists. It begins by describing the composition of normal urine, the quantity excreted daily, how it becomes abnormal, and its physical characteristics under various conditions. It then proceeds to describe the physical tests, and the qualitative chemical examination for such things as Professor Attfeld mentions above, but with additions which thirty years' experience has brought to the surface. Different tests for such abnormal constituents as albumen and sugar (so important to those suffering from Bright's disease or diabetes) are demonstrated in a clear and homely manner, the aim of the writer having been to show those with general chemical knowledge how they may become confident workers in this special branch of chemical analysis. The deposits which Professor Attfeld mentions, and many others, are illustrated by engravings, and there is plenty of comment about their significance, with chemical tests as well as microscopic descriptions. The latter part of the book is devoted to the quantitative analysis of the abnormal constituents of urine—albumen and sugar; and the normal—urea, uric acid, phosphates, chlorides, and sulphates—with notes on polariscopic and spectroscopic methods. Descriptions and illustrations of apparatus, formulæ for test solutions and standard solutions are given, and although the book is not super-scientific, it is an epitome of exactness and precision. Every chemist and druggist in business should get the book, whether he means to make urine-analysis a side-line or not, because it contains information which is decidedly useful. It is published at 1s. 6d. net, or post free from our office for 1s. 8d. in postage-stamps, and it may also be obtained from the wholesale houses who stock our books.

We have also in the binders' hands new editions of Proctor's "Pharmaceutical Testing" (brought into line with the 1898 B.P.) and of Dodd's "Guide to the Preliminary Examination." The latter will be ready next week. It includes the new subjects—Algebra, Euclid, French, and German.

## The Quinine Market.

THIS week's depression in quinine is confined to speculative buying; makers show no disposition to reduce their prices. It is just as possible for the speculative prices to rattle down as rapidly as they went up. Besides bear-selling and loss of confidence on the part of speculators, the circumstance which chiefly favours a decline in secondhands is the growing stock of quinine in the public warehouses here. On December 31, 1898, this amounted to 1,795,984 oz., and it is now 2,107,440 oz., the imports for the three months having amounted to 460,816 oz., and the deliveries 149,360 oz. It is believed that a considerable amount of quinine is held in private warehouses, but not so much as at the beginning of the year, and it is to be observed that a proportion, not more than half, of the 2,107,440 oz. has been sold and is held on speculative account. These transactions are, therefore, covered, and there is nothing in the stocks of quinine to justify bull-selling. On the other hand, the cinchona position does not favour bears, for although the Java exports in March are quite up to the average, they still leave a 15-per-cent. shortage on the quarter's supplies, and it is reported that every scrap of bark available in Java has been shipped, owing to the high rates paid for bark. At the present price of bark the manufacturers' price for quinine is reasonable, and any decline in that will depend upon (1) the future rate of bark, and (2) the destination of the quinine held by speculators. The first condition cannot be usefully discussed. As to the second, it is known that some wholesalers who supply the home market have disposed of large quantities, and they must soon buy for consumptive demand. The need of quinine for the American market is always an important factor, and on this point the following information from the *New York Commercial* is of special interest:—

In the outside [New York] market the available supply [of quinine] is said to be practically exhausted, but it is probable that small lots might yet be obtained. Several parcels have arrived from Chicago, St. Louis, Baltimore, and other points. All had been purchased previously for foreign account, and have already been shipped to London. There is no doubt that stocks are very much depleted, and it is probable that the consuming trade may find itself short of quinine when the regular spring consuming demand sets in. Deliveries are still being made on old contracts at low prices, but those contracts will all expire about the middle of April, and then the full extent of the improvement will be felt. There are some in the trade who look upon the recent rapid upward movement in prices as a speculative bubble which is liable to burst at any moment; but a number of conservative dealers believe that the so-called bubble is a solid ball, and that there are good and substantial reasons for the advance.

We have already reported the purchasing in America for the London market. It was not heavy in comparison with the total transactions, probably not more than 100,000 oz.—an amount which will make little difference to America's needs. The feeling in New York is much the same as in London; sellers have been glad to get rid of their stock at a profit above 30c. per oz., and here the feeling amongst consumers and wholesalers now is that buying above 1s. 6d. per oz. is risky speculation. The fact that quinine-manufacturers have been buying quinine sulphate at 1s. 7d. per oz. rather discounts the eighteenpenny men; but we daresay quinine sulphate at 1s. 7d. per oz. is cheaper than cinchona at 2½d. per unit. Altogether, this week's depression cannot be considered, when everything is taken into account, as heralding low prices in the immediate future. The speculators may collapse if they do not "gang warily," but cinchona is strong enough to float them over April.



## Bovine Tuberculosis.

THE effort now being made to arrest the spread of consumption in man will probably lead to the enforcement of stricter precautions against the sale of milk from tuberculous cows. Recognising this, the Royal Agricultural Society has issued a leaflet of suggestions to dairy-farmers regarding tuberculosis in cattle, pointing out the methods of testing for its presence, and urging dairymen to reject infected cows as milk-yielders.

The death-rate of children from tuberculous disease is at its highest at about the age when they are chiefly fed on cows' milk, hence it came about that the milk was looked upon as the source of infection, and attention directed to the health of dairy stock. It seems to be established that cows, especially the Alderney variety, kept in confinement and constantly milked are liable to become tuberculous. The udder is the part usually attacked, and under these conditions yields milk in which it is possible to demonstrate the presence of tubercle bacilli. The microscopic test for the tubercle bacilli in cows' milk is to place one drop of the milk on a cover-glass with two drops of a 1-per-cent. solution of sodium carbonate, evaporate to dryness, and stain by the Ziehl-Neelson method, which depends on the fact that tubercle and leprosy bacilli are the only micro-organisms that retain carbolio fuchsin after treatment with acid. Leprosy and tubercle bacilli are distinguished by the time it takes to stain them, the leprosy bacillus taking one to three minutes, and the tubercle bacillus ten to fifteen minutes.

In experimental work it is found that all the animals inoculated with milk from a tuberculous cow either develop tuberculosis or remain unaffected according as the udder happens to be affected with the disease or free from it.

But Bollinger has found that if tubercle-infected milk is diluted with sound milk, as is likely to be the case in large dairies, the dilution tends to render the whole innocuous. Possibly this is because a definite number of bacilli are necessary to convey infection, but it is more likely that the milk of healthy cows is toxic to the bacillus. Some good authorities are not yet satisfied that the bacillus of bovine tuberculosis is virulent towards men, because some recent investigations show that the respiratory tract rather than the alimentary tract is most usually affected, and it is thought that infection of the intestinal tract, when it exists, follows that of the respiratory. All authorities, however, are agreed that there is risk to the health of the community in the consumption of tubercle-infected milk.

The leaflet issued by the Royal Agricultural Society recommends dairymen to have the tuberculin test applied to their cows by a veterinarian. Chemists with a veterinary trade may like to know how the test is applied, as it is likely that in the near future tuberculin for diagnostic purposes will command a ready sale. The process of injecting tuberculin is quite simple. The animal to be tested must be free from the excitement produced by recent journeying, and must not have recently calved or be at æstrum, as these are factors which disturb the deductions to be drawn from the rises in temperature discernible after using the injection. Before beginning the test the temperature of the animal is carefully noted by insertion of a clinical thermometer into the vagina. It is best to note it twice, at intervals of twelve hours. It is not of any importance what part of the animal is chosen for the injection—the neck or shoulder is generally chosen. The skin behind the elbow is thinner than that on the neck, and therefore more easily pierced by the syringe-needle, but with a veterinary hypodermic syringe the

tougher skin on the middle of the neck over the cervical vertebræ is chosen. The part selected is washed with soap-and-water, and then rinsed clean and sponged over with 5 per-cent. solution of carbolic acid. Solution of mercuric chloride is perhaps more efficacious than carbolic solution, but there are reasons against its use. The syringe is also sterilised before filling with tuberculin. The needle is plunged completely through the skin into the loose tissue under it, and the whole dose slowly injected. The needle is then slowly withdrawn and the finger pressed on the puncture for a few seconds. The temperature of the animal is carefully taken after six, nine, and fifteen hours, and compared with the temperature taken before the commencement of the operation. What has to be looked for is not so much the number of degrees of elevation which ensues, as a steady rise. In most cases there is some rise, but a continued rise on taking the temperature on the second or third occasion will dispel doubt in most cases. If 103° F. is registered, the animal may be suspected, and should be noted for examination again in a month. If a temperature of 104° F. or more be reached, it may be safely concluded that the animal is tuberculous. Only 4 or 5 per cent. of the animals tested that have shown a temperature of 103-4° F. have failed to reach the standard at which tuberculosis may be safely pronounced as existing. Not only should a steady rise be indicated, but a correspondingly gradual fall. Cases often happen in which a sudden rise takes place, and a quite as sudden run-down ensues before the final thermometric reading. Such animals pass the test successfully. Milk from doubtful animals should be sterilised before use. The vigorous steps now being taken against tuberculosis may seem excessive, especially when viewed in connection with the milk-supply; but when the enormous number of deaths, more or less mysterious, from "consumption of the bowels" is kept in mind, it is not too soon to begin at the root of the affair.

### COUNCIL CANDIDATES.

We believe the following chemists, not at present members of the Council of the Pharmaceutical Society, will be candidates at the forthcoming election.—

Mr. A. S. Campkin, chemist and druggist, Cambridge.

Mr. W. S. Glyn-Jones, chemist and druggist, 159 East India Road, E.

Mr. Edmund White, pharmaceutical chemist, St. Thomas's Hospital.

Mr. R. E. Wright, chemist and druggist, Plough Court, Lombard Street, E.C.

The members who retire in rotation, and who, we presume, will offer themselves for re-election are Messrs. Bottle, Carteighe, Harrison, Harrington, Park, Southall, and Young.

### THE APOTHECARIES' SOCIETY'S ASSISTANTS' CERTIFICATE.

We are asked to publish the following apology:—

The Dewsbury and District Chemists' Association desires to express its sincere regret that a statement should have appeared in a letter written on behalf of the Association, and addressed to the Clerk of the Privy Council, to the effect that the Association considered the Assistants' Certificate of the Apothecaries' Company was not a sufficient legal qualification. This statement the Association desires to withdraw unreservedly, and the Association hereby apologises to the Society of Apothecaries for its insertion in the letter referred to.

The Association wishes to disclaim any intention of impugning the legality of the certificate in question.

(Signed) R. GLEDHILL,  
Hon. Secretary.

The Dewsbury Chemists' Association seems doomed to fame. Early in the session it was chosen by Mr. Beecham

on the one side, and Mr. Glyn-Jones on the other, as the tribunal on the great price question. Subsequently the Dewshury chemists thought fit to give the Privy Council the benefit of their opinion on the subject of dispensing for medical men by unqualified assistants. It was in that communication that the offending allusion to the Apothecaries' Assistants' Certificate occurred. It was scarcely more than the expression of an opinion, and we are rather in doubt as to the next step the Society of Apothecaries would have taken if Dewshury had remained obdurate. It is evident, however, that Dewshury utterances are watched with exceptionally keen scrutiny, and the chemists there will have to study their words with the utmost care if they are to live up to their reputation.

#### CHANGE FOR A GUINEA.

The advisers of the Pharmaceutical Council do not seem to have unlimited confidence in the probity of their members. At any rate it appears that they find it necessary to require them to give a receipt for their certificate of membership before it is forwarded to them. Mr. Claude F. Henry, of Edinburgh, sends us a copy of a correspondence he has had with the Secretary of the Pharmaceutical Society of Great Britain in respect of the delivery of this certificate. Having been elected a member, Mr. Henry thought he was entitled to have the certificate sent to him, especially as By-law XXI. promises it unconditionally; but the Secretary asked that he should first sign and forward a receipt for the certificate on a form which, we believe, also covers an undertaking to return it in case of discontinuance of membership. Mr. Henry objected to sign a declaration which, as he said, would be a falsehood, but he undertook to acknowledge the receipt of the document as soon as it should be actually received. The Secretary replied that "it had been found necessary from an administrative point of view, and on the advice of the Society's solicitors, to adopt the procedure of only issuing certificates in exchange for formal receipts," but he offered to hand over the certificate to any representative whom Mr. Henry might send with the signed receipt-form. Ultimately the little difficulty was arranged by the certificate being sent to the Assistant Secretary at Edinburgh and there exchanged for the desired receipt-form. Members are right in seeing that they get at least all they have a right to for their guinea; it is not too much.

#### DENTISTS AND THE MEDICAL COUNCIL.

A meeting of dentists has been held in Manchester for the purpose of considering the relations of dentists towards the General Medical Council. The meeting, which appears to have been called by Mr. C. S. Leadbetter, was under the impression that the General Medical Council is meditating a Bill which will "strike at the root of the privileges" of dentists. Accordingly the meeting resolved to further a project which is to secure independence from the Medical Council, and administration of the Dentists Act by a purely dental body. That will mean a new Act, and Mr. Leadbetter will find that rather difficult to get, in view of the fact that some leading dental practitioners are proud of the connection of dentistry with the medical profession through the Medical Council. But perhaps the Lord Chancellor's Bill, now that it has appeared, will appease the Manchester dentists. Anyway, they should do all they can to get that Bill passed before they trouble about their independence.

#### MATÉ.

Dr. Gordon Sharp writes an entertaining article to the *Lancet* on maté. He mentions that his object was to place before his dyspeptic patients a beverage which would be a good substitute for ordinary tea, and, as coffee and cocoa had been tried and found wanting, he turned his attention to maté. First he tried it upon himself, and although he appears to have commenced the experiment in high hopes of

success these were soon doomed to disappointment. He found the beverage anything but pleasant to the taste, and repeated draughts of it, duly seasoned and extending over a week, produced in him feelings of the utmost disgust, the persistent taste being not the least disagreeable symptom. He also tried an ethereal extract of the maté, and the following is his graphic account of the results:—

In an hour there was nausea with saliva rising into the mouth, and vomiting was only with a great effort averted. This sensation continued more or less for six hours—that is, till bedtime. Two hours after taking the extract there was great discomfort in the region of the transverse colon, but no diarrhoea. These conditions were crowned by a sleepless night and a headache next morning which disappeared after breakfast. The aroma of maté is a constant companion all the day following the taking of the extract. The extract may have had some slight diuretic action. The maté remaining after exhaustion with absolute ether was examined and was found to contain caffeine and tannin as its chief constituents. An infusion tasted strongly of tannin and was found to be a most insipid beverage, showing how little caffeine has to do with the exhilarating properties of the caffeine-containing plants, as in the case of China tea. There can be little doubt that maté has not a flavour peculiar to itself, but has simply that of the holly order to which it belongs, for some ordinary holly-leaves were roasted, and their aroma was similar to that of maté.

Dr. Sharp also writes to us in regard to the maté, and in the course of his letter says his "patients prefer dyspepsia to maté. The flavour lingers, and cannot be described in words. There is little hope of maté finding favour with those who have once tasted China tea." These observations are opportune, for we notice that the *Südamerikanische Rundschau* predicts a future for Paraguay tea, and states that Herr Alfred Heiniger recently left Berlin for Asunción on a mission of inquiry regarding this product. The chief object of Herr Heiniger's journey is to ascertain whether a monopoly of the Maté export to Europe on the part of a German syndicate would be profitable. It is remarkable how enthusiasm in Maté periodically crops up. It has been tried over and over again in Europe, and found lamentably wanting. In London thousands of pounds have been spent in trying to make it popular, and if the public has responded it has been to promptly return to good old-fashioned tea.

#### REGISTRATION IN JERSEY.

We append an account sent to us by a Jersey chemist to show the cost and method of registration as a chemist and druggist under the Jersey Pharmacy Act:—

|             |                                                                           |                                                                 |       |
|-------------|---------------------------------------------------------------------------|-----------------------------------------------------------------|-------|
| Dt.         |                                                                           | Mons. George Le Seelleur,<br>a F. Richardson Le Brun, Ecrivain. |       |
| 1898.       |                                                                           | £                                                               | s. d. |
| Février 26. | Ecriture de demande d'Enregistrer<br>Certificat de "Chemist and Druggist" | 0                                                               | 5 6   |
|             | Attendances à La Cour, demande accordée ...                               | 0                                                               | 11 0  |
|             | Payé à l'Avocat Le Gallais ...                                            | 1                                                               | 0 0   |
|             | Payé au Lieut. Bailli, 4s.; Greffier,<br>13s.; Acte, 2s. 6d. ...          | 0                                                               | 19 6  |
|             |                                                                           | £2                                                              | 16 0  |

#### PROTECTING THE FEEDING-BOTTLE BUSINESS.

B. B. (117/54) sends us a newspaper-cutting condemning the feeding-bottle, and attributing to it a large share of the infant mortality of our time. "B. B." thinks the statement is sound sense, but, at the same time, he seems to treat it as another attack on the chemist's income. We presume he is writing sarcastically, but, if not, what does he want us to do? Of course we "recognise that it is more important that chemists should live than that babies should be healthy," but we are afraid our brutal Parliament will not see things in that light. Perhaps the Federation will look to this, and bring pressure to bear on the Pharmaceutical Society to get an Act passed compelling the purchase of feeding-bottles at remunerative prices.



## Essential Oil of Jasmin.

THE chemistry of essential oils, especially in reference to the increasing application of chemical knowledge to the synthetic production of perfumes, has just received an important stimulus by the publication of several papers on the oil of jasmin-flowers. Verley (whose results are the subject of Belgian patent No. 137,879), in the *Comptes Rendus* of January 30, states that he treated jasmin-pomade, which was obtained by the *enfleurage à froid* process, with acetone, and removed this solvent by distillation *in vacuo*. This left a residue of 40 grammes of oil, of which 35 grammes was then distilled *in vacuo*, yielding 19 grammes of essential oil and 14 grammes of resin. The oil was next fractionally distilled under reduced pressure, and a fraction obtained which boiled at 100°–101° C. under a pressure of 12 mm. Verley concluded that 90 per cent. of this was a body having the formula  $C_{10}H_{16}O_2$ , and 10 per cent. was linalol. The body,  $C_{10}H_{16}O_2$ , Verley believes to be phenyl-glycol methylene-acetal, and he claims to have confirmed the analytical results by a synthesis of this body by condensing formic aldehyde and phenyl-glycol with dilute sulphuric acid.

The publication of these results appears to have caused Hesse and Müller (who are, we believe, chemists to Messrs. Heine & Co., of Leipzig) great astonishment, with the result that they have followed it up by a communication to the current issue of the *Berichte*, in the course of which they give the following data obtained by the examination of ten samples of jasmin oil, each sample having been prepared from from 5 to 10 kilos. of pomade. Instead of vacuum distillation they used steam distillation to separate the resin and oil:—

| No. | Yield per cent. | Sp. gr. | Rotation | Esters calculated as |                |
|-----|-----------------|---------|----------|----------------------|----------------|
|     |                 |         |          | Linalyl acetate      | Benzyl acetate |
|     |                 |         |          | per cent.            | per cent.      |
| 1   | 427             | 1.015   | + 2° 30' | 95.4                 | 73.0           |
| 2   | 457             | 1.018   | + 2° 30' | 91.5                 | 70.0           |
| 3   | 429             | 1.011   | + 2° 30' | 95.0                 | 72.9           |
| 4   | 473             | 1.009   | + 3° 30' | 92.0                 | 70.4           |
| 5   | 409             | 1.006   | + 3° 15' | 90.3                 | 69.1           |
| 6   | 395             | 1.007   | + 3° 10' | 90.9                 | 70.7           |
| 7   | 595             | 1.014   | + 3° 20' | 92.8                 | 71.0           |
| 8   | 490             | 1.012   | + 3° 10' | 94.1                 | 72.0           |
| 9   | 526             | 1.009   | + 3° 30' | 95.4                 | 73.0           |
| 10  | 480             | 1.015   | + 3° 20' | 93.3                 | 71.4           |

These authors point out that Verley's oil closely resembled this, having sp. gr. 1.0118, rotation + 4° 50', and ester-number equivalent to 70.12 per cent. benzyl acetate. They point out, too, that they some time ago ascribed the high saponification-number of the oil to the presence of benzyl acetate, which, to their knowledge, had not hitherto been recognised in any quantity in essential oils. Their work resulted in a patent being taken out by Heine & Co. for the preparation of artificial jasmin oil. They consider it most unlikely that, in the examination of the essential oil obtained from 300 and 400 kilos. of the pomade, they could have omitted to find the well-characterised body, phenyl-glycol-methylene-acetal, and they conclude that it does not contain that body.

A French patent (No. 281,297, 1898) has been granted for a method of producing the artificial jasmin perfume by heating together on a water-bath a mixture of phenyl glycol 50 gr., water 30 gr., sulphuric acid 125 gr., and formaldehyde, 100 gr. Methyleneacetalphenylglycol, which results, has an odour exactly like that of natural jasmin. This substance can be purified by distillation *in vacuo* at 101° C. and 12 mm pressure, when it is found to be a thick oil which boils at 218° C., so that it should be a remarkably persistent perfume. The patent also describes how the homologue of the body may be prepared.

## Medical Gleanings.

### A RAMROD THROUGH THE HEAD.

THE *Lancet* recently printed a communication regarding a boy of 15 who, while loading a gun, had the ramrod accidentally shot right through his head, from brow to scalp. Yet he recovered!

### ELECTRIC-LIGHT BATHS

are a new therapeutic agent. In the *British Medical Journal* for March 18 there is an illustration of the bath and a description of its effects by Dr. H. Lewis Jones. The bath makes the patient perspire, and is good for rheumatism, asthma, obesity, and other similar complaints.

### CAMPHOROXOL, MENTHOL, AND NAPHTHOL.

THESE are 10-per-cent. solutions of camphor, menthol, and naphthol in a solvent consisting of 65 parts of 3-per-cent. hydrogen peroxide and 35 parts (by weight) of 90-per-cent. alcohol. The solutions are powerfully antiseptic, and are used diluted with water to the extent of 1 in 10 on a compress for ulcers, &c., giving purulent discharges.—*Jour. de Phar. et Chem.*

### GARGLES.

DR. SÄNGER, a German practitioner, has made some observations on the therapeutic utility of gargles in the treatment of sore throat. He experimented by brushing the tonsils of a patient with a solution of methylene blue, and then gave the patient a gargle to use, whereupon he discovered that the gargle was never coloured, and from this he concludes that gargles are useless. This is rather a perfunctory experiment to set against generations of proved utility, and Dr. Säger appears to have overlooked the benefit which results from treatment of the immediate, though probably unaffected, parts of the fauces.

### CINNAMON AND INFLUENZA.

DR. J. C. ROSS, of Manchester, communicates to the *Medical Journal* a note on the treatment of influenza with cinnamon-bark. He prescribes it in decoction made by slowly boiling 1 lb. of the cinnamon with sufficient water to make 25 oz. of the finished product. Of this  $\frac{1}{2}$  oz. is the dose, but if preferred in solid form the dose may be given in tabloids, two of which represent  $\frac{1}{2}$  oz. of the decoction. Dr. Ross prescribes a dose every half-hour for two hours at the onset of the attack, then every hour until the temperature is normal, after which the medicine may be continued four times a day for four days. He has used the remedy since 1892, and, although his note does not strike us as being conclusive, he himself is convinced that the remedy is useful.

### CHRONIC GONORRHOEA.

DR. F. R. PROCTOR-TIMS suggests the following treatment for chronic gonorrhoea:—Wash out the urethra once a day with some antiseptic lotion, such as potassium permanganate, boracic acid, or mercury perchloride. This is done by means of a straight vulcanite tube of about the calibre of a No. 3 catheter attached to a Higginson syringe. The extremity of the tube introduced into the urethra is bulbous and closed, but there are four or five small openings at the sides allowing a backward flow of the fluid injected. Pass the tube in as far as possible, and inject about a pint of fluid at each sitting. Internally give the following mixture:—

|                  |     |     |     |       |
|------------------|-----|-----|-----|-------|
| Ol. santal flav. | ... | ... | ... | 3iss. |
| Ol. cubebe       | ... | ... | ... | 3iss. |
| Tr. hyosc.       | ... | ... | ... | 3ij.  |
| Liq. potass.     | ... | ... | ... | 3i.   |
| Spt. cinnam.     | ... | ... | ... | 3j.   |
| Aq. ad           | ... | ... | ... | 3vj.  |

Sig.: 3j. ter die.

AMERICAN POTASH CYANIDE.—The demand in the United States for cyanide of potassium for export to South Africa is reported to be unusually heavy at present. The business is at present confined to one firm, but there is talk of several other firms embarking in it.

## Practical Notes and Formulæ.

### MOUSTACHE-POMADE.

|                            |         |
|----------------------------|---------|
| Yellow soap ... ..         | 30 oz.  |
| Water ... ..               | 35 "    |
| Carbonate of potash ... .. | 1½ "    |
| Ceresin ... ..             | 7½ "    |
| Japan wax ... ..           | 2½ "    |
| Gum arabic ... ..          | 2½ "    |
| Castor oil ... ..          | 2½ "    |
| Oil of cloves ... ..       | 1½ dr.  |
| Oil of bergamot ... ..     | 25 min. |
| Oil of lemon ... ..        | 20 "    |

Melt the castor oil, wax, and ceresin together, and keep hot. Dissolve the soap in 30 oz. of water, and add the carbonate of potash; also keep this hot. Dissolve the gum arabic in 5 oz. of water and strain. To the melted wax, &c., add half of the soap solution, and beat up thoroughly; then add the mucilage and the perfume, and finally work in the rest of the soap solution, beating most diligently all the time.

### REMOVING TATTOO-STAINS.

IN a contribution to the *Philadelphia Medical Journal* Dr. R. H. Skillon treats this subject very fully. After mentioning peroxide of hydrogen, and re-tattooing with zinc-chloride solution or solution of tannin, he proceeds to state that glycerole of papain is probably the easiest, least painful, and most efficient remedy that can be used. The parts should be first shaved (if necessary), then washed with soap and water, alcohol, and, lastly, a 1-per-mille solution of mercuric chloride. The parts are then anaesthetised with a spray of ethyl chloride; enough glycerole of papain is poured on the skin to cover those parts of the marks to be operated on, and this is worked into the tattoo-marks by pricking with three or four very fine cambric needles (rendered aseptic), the needles only going deep enough to draw a small quantity of blood. The marks should be gone over several times, and followed by a dressing of glycerole of papain gauze and adhesive plaster. This dressing should be allowed to remain undisturbed for two or three days. The dressing may then be removed, and the surface re-covered with a strip of adhesive plaster. The coloration gradually disappears, and after a few days crusts begin to form where the needles have penetrated the skin. When these fall off the marks will be found to have disappeared. In those cases in which the marks are very dense it is necessary to operate on the parts twice.

### PHARMACEUTICAL POINTERS.

A FEW practical hints are given to pharmacists by Mr. F. J. Wulling, in a recent number of the *Pharmaceutical Era*, some of which we reproduce here. Whenever glassware of any description (measures, funnels, flasks, pipettes, or test-tubes) are purchased they should be annealed by putting them into a boiler in cold water, heating the water gradually until it boils, and then allowing the boiler and contents to cool very slowly. So treated porcelain and glass ware will stand sudden changes of temperature without fracture. Small quantities of emulsions may be quickly and efficiently prepared by means of a good-sized piston-syringe. Put the ingredients into a mortar or other convenient vessel, and manipulate the piston rapidly for a few minutes. Eight ounces of a 50-per-cent. emulsion of cod-liver oil thus made in three minutes did not separate after three months. Corks may be kept moist and flexible by storing in a metal tray fitted into a block-tin lined drawer, in which is kept a little water. For sifting tooth-powders, powdered drugs, and moistened powders, before packing into percolators, a flour-sieve provided with rotary mechanism is much better, cheaper, and more expeditious than the usual stove. A large-sized nutmeg-grater is also a good pharmacy adjunct. With it a number of drugs can be grated into a coarse powder which cannot be reduced in a mortar or drug-mill. In grating the drug should be only lightly passed over the surface of the grater. Mr. Wulling also recommends agate or granite ware in place of porcelain for casseroles, infusion-jars, or evaporating-dishes, which he says is cheaper and answers most purposes better.

EXPORTS from Jeddah (Arabia) during 1897 included gum arabic valued at 4,000l.

## A Six-and-Sixpenny Start.

IN November, 1897, all that stood between starvation and myself was 6s. 6d. What was to be done? I was unqualified, and could not obtain a berth anywhere. I was also married, which made matters worse.

The town in which I was living was a straggling one, very populous, and a large mining centre. Two chemists only were located there; both were in the market-place, and seemed fairly well to do.

Having nothing to lose, I took an empty shop at a rental of 6s. 6d. a week, the landlord allowing me two weeks' rent in lieu of cleaning. This shop was about a quarter of a mile from the market-place, and was in a densely populated neighbourhood.

My first anxiety was how to spend my 6s. 6d. in the best way. After mature deliberation, I bought in a neighbouring town (distant four miles) ½ doz. 8-oz. bottles, 2 oz. sweet nitre, 2 oz. sal volatile, 1 lb. petroleum jelly, 1 oz. ac. boric., ½ gross 1-oz. cut-down chips, 1 gross Bland's pills, ½ lb. castor oil, ½ lb. cod-liver oil, ½ doz. strengthening plasters, and 3 doz. little liver-pills for 5s. 10½d. Armed with these I returned, calling on my way home for ¼ stone whiting, 1d. C.H. pencil, and 1d. white demy.

It was 4 o'clock on a Saturday afternoon when I got home. I whitened the shop-window well over, and with brush and ink and slips of white demy I placarded the window with "I cure fits," "This shop will be opened in a few days as a cash drug-store," "No need to suffer; call in here," "Always open, never closed," "Pure drugs only," &c.

Result was—in came a collier. "Are you the boss?" "Yes." "Can you give me owt for a bad back?" "Certainly." After a few questions, I made up the following mixture for him, which I produce as entered in my prescribing-book, page 1, book A:—

### COLD IN KIDNEYS.

Mr. ———.

Habt.

|                      |     |     |        |
|----------------------|-----|-----|--------|
| Spt. ather. nit.     | ... | ... | 1 oz.  |
| Worcestershire sauce | ... | ... | 5ij.   |
| Aq. ad               | ... | ... | 5viij. |

3ss. bis horis.

Habt.

|            |     |     |     |     |
|------------|-----|-----|-----|-----|
| Emplastrum | ... | ... | ... | 6d. |
|------------|-----|-----|-----|-----|

"Now," I said, "go home, take this mixture as directed apply the plaster, and rest. Look at the clock, and at 9 to-night you'll be better." And so he was. What a grand thing faith is!

That night I took in prescribing 13s., besides making one visit to a patient with rheumatic fever, for which I generously charged nothing, but sent a bottle of medicine, spt. ammon. co. and aqua, and advised them to fetch in the doctor next morning. He confirmed my opinion, and, as the result showed, that visit, and curing the man with cold in kidneys, laid the foundation of my successful business of to-day.

As fast as money came in I spent it in drugs. My prescribing-trade increased until, in the sixteen months since I opened, I have prescribed for 5,000 people, and taken 80l. for prescribing.

My takings in November, 1897, were 7l.; December, 15l.; January, 1898, 30l.; March, 51l.; May, 57l.; September, 61l. November, 66l.; December, 74l.; and my present average is 17l. a week. My drug and patent account averages 35l. a journey.

To anyone who has a dragging business my advice is, Blow your own trumpet. Never hesitate to do anything in reason to get yourself talked about. Be always confident in yourself. Stamp your name in all books that are brought to you when a subscription is needed for the chapel, church, or any charity, and see that the letters of your name are large ones.

Advertise one or two specialties on handbills, and do not spare the type. Be always civil, and supply a penny-worth with as good a grace as half-a-crown's worth: it's the pennies that pay. Talk judiciously about the cures you make. Give a bottle of medicine away occasionally to the poor. If it doesn't cure, well, you tried your best. Look out for some side-line suitable to your class of



trade. Various things are recommended. For my part I advocate tobacco: the profits are good, notwithstanding what is said to the contrary.

The principal tobaccos run on are cavendish, cut cake, mixture, pigtail, and thick twist. These cost 3s. 1½d. per lb., and retail at 3d. per oz. Honeydew and hand-cut Virginia cost 3s. 8d. per lb., and retail at 4d. per oz. Cigarettes by weight cost 4s. 6d. per lb., and sell at 6d. per oz. Woodbines, Cinderellas, and the like cost 3s. 0½d. per box of fifty 1d. packets, so that, taking the trade all round, the profit averages 25 per cent.

Another profitable agency is seeds. "Seeds! Seeds!! Seeds!!! No old stock," is my war-cry.

In my first year I bought 8l. worth, which realised about 13l. This year I have bought 16l. worth, and they are going well.

Advertise freely and judiciously, but only by handbills. Posters are no good for a local trade. The first thing I bought, when I could afford it, was a "Duplicator," which cost me 38s. With this I can produce handbills *ad lib.* for 9d. per 1,000. This is what the paper costs me, ready cut, from any printing establishment. My errand-boy does the billing, and can distribute 1,000 bills in three days in his spare time—and it does pay.

I never push an article in the place of anything that a customer asks for, but I have a small slip which I stick on—

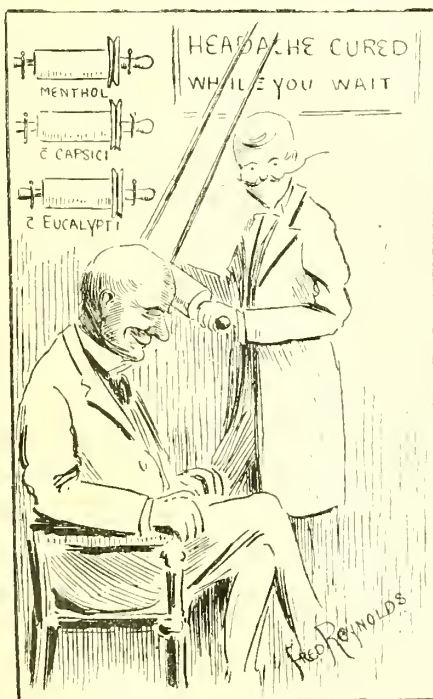
IF THIS REMEDY  
DOES NOT CURE YOU,  
CONSULT  
BLANK.

This generally does the trick.

Another absolutely necessary requisite is a "sign-marker." Good bold, striking showcards can be produced by this, and I always take care to have a clean window, well ticketed. The window of a chemist is always a certain index to his shop. Dirty window, dirty shop. Slovenly window, slovenly chemist. Smart, clean, and well-dressed window shows an up-to-date man.

I average 1,300 customers a week, and hope to double that number in the next twelve months.

#### Novel Side-Lines for Chemists.



"In these days of competition chemists will find the new instant headache-cure a splendid payer"

## Commercial Notes.

### SENEGAL TRADE.

The French Consul at Senegal, reporting on the trade of Rufisque, gives the following particulars about the importation of drugs, chemicals, &c. Quinine sulphate is imported in 15-gramme bottles, at 2f. per bottle; potassium iodide in bottles of 15 and 30 grammes, at 50f. per kilo.; copper sulphate in bags of 10 kilos., put in wooden cases, at 53f. per 100 kilos.; saltpetre in bags of 10 kilos., at 55f. per 100 kilos.; naphthalene in balls, in bags of 10 kilos., 75f. per 100 kilos.; all f.o.b. Bordeaux. The mineral waters most in demand are Vichy waters (Grande-Grille, Hôpital, Célestins, Saint-Yorre), Contrexéville, Saint-Galmier, Pongues, &c. They are sold in cases of 50 bottles, packages free. Eau de Cologne was formerly in demand, but little is now sold. It comes from Bordeaux and Paris packed in cardboard boxes containing six bottles each, which cost from 2.15f. to 3f. per dozen. Turpentine comes from Bordeaux in iron drums of 25 kilos. at 0.88f. per kilo. Soap comes from Marseilles in cases of 50 kilos., in 1- and 2-kilo white or yellow bars. Price varies from 25.50f. to 45f. per 100 kilos., according to brand.

### FRENCH TRADE.

The report on the trade of France for 1898 by Mr. H. Austin Lee, Commercial Attaché to H.M. Embassy at Paris, is by no means pleasant reading for that country, showing as it does a decrease of 6.6 per cent. (as compared with 1890) on the exportation of food products, raw materials and manufactured goods, while the importation of manufactured goods subject to a heavy import-duty shows an increase of 4.5 per cent. As a whole, exports have decreased 2.6 per cent. and imports have increased 10.6 per cent. over last year, but the last figure was the result of a bad harvest, for the imports of other raw material have actually decreased by 1,666,200f., or nearly 2 per cent. It is a remarkable fact that during October last, when the Fashoda incident was pending, the exports to this country fell off by 851,000f. as compared with October, 1897. As regards chemical products, however, the importation, as well as the exportation, other than nitrates and coal-tar products are progressing. The exports of chemical products amounted to 1,756,000f. in 1894; 1,940,000f. in 1895; 2,088,000f. in 1896; 2,484,000f. in 1897; and 2,536,000f. in 1898; while the exports were 1,552,000f. in 1894; 1,776,000f. in 1895; 2,286,000f. in 1896; 2,356,000f. in 1897; and 2,708,000f. in 1898. On the other hand there was a decrease of 95,331f. on chemical products imported from Great Britain.

### ITALIAN TRADE.

The Director-General of Statistics for Italy says that among the imports to that country alkaloïds decreased during the past year, 23,062 kilos, having been imported, as compared with 32,848 in 1897. This decrease is more than accounted for by the diminished exports from Germany, which in 1898 were 23,911 kilos.; imports from Great Britain also decreased from 2,441 kilos. to 1,983 kilos. Cinchona-bark increased from 137,900 kilos. in 1897 to 154,500 kilos. in 1898. We also notice a marked increase in the importation of gums and resins from Great Britain; thus in 1896 we sent to Italy 551,100 kilos., but in 1898 1,029,300 kilos. The total importation of gums in 1898 was 148,531 kilos. Among chemical imports, for which Italy relies largely upon Great Britain, are paraffin, of which we supplied in 1898 16,592 kilos., which is about half what Italy buys from the United States. We supplied nearly the whole of the alkali, of which in 1898 the total imports were 110,022 kilos., the imports from Great Britain being 80,682 kilos.; and of sulphuric acid and sulphates we supplied 282,845 kilos. out of a total of 383,033 kilos. In soaps we do about one-fifth of the trade, France sending most; Germany is a bad second, and Great Britain a fair third. The more important exports from Italy are as follows:—Boracic acid, 17,344 kilos., of which 5,656 came to Great Britain in 1898; orange and lemon juice, 31,437, France taking 14,521, Great Britain 12,803, and the United States 2,747. Of argols the total exported in 1893 was 174,555 kilos., and of this Great Britain took 62,632, the United States coming next with 54,075 kilos.



## Correspondence.

*In writing letters for publication correspondents should adopt a concise, but not abbreviated, style. They are requested to write on one side of the paper only. Letters with or without a nom-de-plume, must be authenticated by the name and address of the writer. Queries should be written on separate pieces of paper, and the regulations printed under the sections to which they apply should be strictly observed.*

### Notice to Correspondents.

#### The Lord-Chancellor's Bills.

SIR,—I am not altogether astonished at the action of the Lord Chancellor, nor do I consider it so important as it looks at first sight. I think he has, perhaps, done us a good turn by bringing into sharp contrast the difference between the kind of justice these law-lords have been meting out to us and the justice they are prepared to mete out to other professions. I have always said that the Pharmacy Act of 1868 afforded no excuse whatever for the kind of decision which was given in the London and Provincial Supply case, and I still maintain that if that Act had been administered according to letter and spirit, we want no tinkering with it. It is magnificent in its clearness and distinctness upon every point. These law-lords, however, got through it by methods with which we are all acquainted. Now, the Lord Chancellor makes no effort to conceal the fact that he is looking for a plan by which the abuse complained of in that case may be perpetuated to all time. He says it is obvious that a company cannot qualify, and after casting his eyes around he pounces upon the widows' clause, and states that in order to make the position of these companies legal he wishes them placed upon the footing of executors. Note: it is not because the two positions are synonymous—it is not because there is any logical affinity between the two positions—but simply because a company cannot qualify. The Lord Chancellor might just as logically have applied this simple argument of his to any man in the street. Dick Swiveller can't qualify, therefore I will place him upon the same footing as the trustee of a late chemist. There is, however, no earthly danger of the Lord Chancellor's little clause being added to the Pharmacy Act, if we see that it does not pass the House of Commons without having the attention of members focussed upon it. It is full of the most glaring absurdities. For instance, the words "So long only as the business is *bonâ-fide* conducted by a manager or assistant being duly qualified" occur in this clause. It is not very clear here whether the Lord Chancellor means that a manager who is not qualified may be over an assistant who is qualified, or whether he means that the assistant who is qualified is to be over the manager or master who is not qualified, but upon reading the memorandum I gather that he considers it sufficient protection to the public if there is a qualified manager or assistant upon the place. There may be some glimmerings of sense in having a qualified manager, but there is none in having a mere qualified assistant. To say nothing of the absurd anomaly of calling a man who is qualified and knows his business the assistant of a man who is not qualified and knows nothing about his business, you have the possibility of having a whole establishment of perhaps five hundred hands protected by the certificate of a man who may be paid 30s. a week for doing dirty work in a back room. He may have no voice in the management, he may be old and worked out, he may be a drunkard or a fool. It matters not so long as he has a certificate and these people can trade upon it. This would mean absolute repeal of the Pharmacy Act, and the House of Commons will laugh at it. Such a suggestion could only have found birth in the House of Lords. It is strange, indeed, that members of the House of Lords, who if they were stripped of privilege would be stripped of everything, should be so regardless of the hard-earned privileges of those outside their own aristocratic circle; but perhaps they consider that the Army and Navy and Civil Service Stores are amongst their privileges, and that this question of company-pharmacy comes very near these stores. If this is the opinion they have formed, it must have been formed in a remarkably lucid interval for the House of Lords.

We have some lessons to learn, however, from this action of the Lord Chancellor. We must reduce our demand to a short, sharp, crisp form which can be understood by those outside the ranks of pharmacy as well as those within. We must present our case in the House of Commons and not in the House of Lords. No case which originates in the House of Lords ever comes to much. The Lords meet and deliberate, and frame little absurd clauses, but I have yet to learn that anybody takes much notice of either them or their deliberations. We will have also to make up our minds about the widows' business. We see the difference in principle between a widow's business and a bogus store ourselves well enough, but there will be great difficulty in getting those who are unfamiliar with the facts to see this difference. I have not, so far, criticised the action of the Pharmaceutical Society at this time, as I felt that criticism might have a hampering effect when our case had actually been placed in the hands of the Lord Chancellor; but I may now say that, in common with many others, I am of opinion that we have been too precipitate, and that our ideas have been too nebulous and ill elaborated. I have thought from the beginning that we ought to place our case in the hands of thoroughly competent law agents, and leave them to reduce our demands to workable form. I do not, for instance, think that this is the time to deal with the scope of the Pharmacy Act. That must come much later. The duty which devolves upon us just now is the confinement of the sale of articles upon the present Poisons Schedules to the shops of qualified men. The whole case is undoubtedly enshrouded in extreme difficulty—but the difficulties are not unsurmountable. I have always thought that the simplest line to take would be to deal with qualified men who cover unqualified; but this line of action would undoubtedly affect the Army and Navy and Civil Service Stores, and it is very undesirable that we should raise the question of these stores in the meantime. You yourself have suggested that we should demand that all the directors and managers of a company be qualified; and although this suggestion may not go as far as some would like, it goes further than appears upon first sight, and for common sense and practicability it probably holds the field. It has this advantage, that, as it only applies to companies incorporated under the Limited Liability Act, it does not raise the question of co-operative stores. I have always felt that these bogus companies could not live for a day if they were not sheltered behind the Army and Navy and Civil Service Stores.

In any case, we must select some definite line of action, and we must be short and crisp and definite in our demand. If we bring a selection of crude and ill-digested ideas before the House of Commons—as we have done in the case of the Lord Chancellor—we will inevitably wreck our whole case. I think, also, we should make an effort to act more in conjunction with Ireland. Ireland is to be congratulated upon the splendid fighting qualities and the great good sense she is showing at the present time. Chemists throughout the country must not be discouraged at the present position.

I do not believe that the Lord Chancellor expects his suggestions to become law. It looks as if he has taken this line of action in order to get rid of a disagreeable responsibility. We are no worse off than we were before; and I trust that the President of the Pharmaceutical Society will lose no time, when this storm has blown over, in putting the good vessel of pharmacy off to her course again.

Dumfries, April 3.

JAMES REID.

SIR,—I feel I need add little to the excellent article in your issue of April 1 with reference to the proposed Pharmacy Bill of the Lord Chancellor, and its unequal and unfair operation with regard to qualified chemists as against unqualified companies.

It will be remembered that at the special general meeting of the Pharmaceutical Society, held in January last, "for the purpose of considering and adopting proposals for the keeping, selling, and dispensing of poisons," the most potent factor in the arguments of the proposer and supporters of the regulations was that if the requirements of the Privy Council were complied with the much-needed and long-sought amending legislation in the interests of qualified chemists should follow, and the President, at the conclusion of the proceedings, said "they had done a good day's work,



which he hoped would bear fruit ere long." In view of the provisions of the Bill now before the House of Lords, it is very difficult to reconcile the promise with the performance, the bud with the fruit—which is as that of the Dead Sea—the ideal with the reality.

As to the unfair and unequal operation of the Companies Act, and the injustice under which qualified chemists labour by comparison with unqualified companies, it is so notorious as to need no further comment here.

But it is open to the Council of the Society to take prompt means to strongly resist a further injustice, which would be created by the Lord Chancellor's Bill; and every effort should be made to oppose it in the Upper House, and, if unsuccessful, the Bill should be met by the strongest opposition in the House of Commons not only by the Council, but by collective and individual action by local associations and registered chemists throughout the kingdom, by instructing and bringing influence to bear upon their representatives (as was successfully done with the Bill of the late Dr. Lush some years since), and thus secure the rejection, or unconditional withdrawal, of the Bill, with a view to united action at an early date to promote a Bill in the next Session which shall have the effect of securing to the qualified and registered man that protection to which he is entitled in return for the qualification which the State has decided he shall obtain.

I am, dear Sir, yours very truly,

A. SIDNEY CAMPKIN.

Rose Crescent, Cambridge, April 4.

SIR,—Chemists are face to face with a crisis in the history of pharmacy. We can thank the Lord Chancellor for focussing the problem, which briefly is this. He regards chemists as traders whom it is desirable to regulate. We, on the other hand, think the requirements of the State involve the acknowledgment of a professional status. These views are incompatible, and the question is before us—Which is to prevail? Chemists, therefore, will emerge from this contest with the seal of the law upon them, either as traders simply or members of a profession. Whatever the cost, we need to get on right lines, for the foundation is everything. We must have the natural and proper consequence of the qualification, if pharmacy is to be made capable of natural evolution—*i.e.*, they who cannot qualify shall not legally practise. What would just pharmacy-laws bring about? The first tendency would inevitably be for the chemist to become *de facto* the pharmacist, with a large and legitimate field, touching on the one hand the medical profession, to which he would render help impossible under present circumstances, on the other hand the public, who would get intelligent and responsible advice in the use of scores of powerful medicines, and protection against their own ignorance. Further, the exploiting of the ailing by syndicates, capitalists, and sundry, which at present is a disgrace to the country and the profession charged with the public health, would become impossible. It should not be difficult to show members of Parliament that the unjustness of the laws touching chemists is merely an incident of a grave national evil. Our immediate concern is:—(1) The Pharmacy Bill must at all hazards be withdrawn; (2) "chemists" must be added to the Companies (Medical Profession) Bill. We insist that the time has arrived for pharmacy to be put on a sound foundation. If it is to become an honourable calling, as distinguished from a trade, we shall have to demand, with united voice, from the people and from the Legislature, the settlement of the principle undoubtedly intended to be developed by the Act of 1868. The adoption of this active policy will command the unanimous support of the medical profession and the approval of the public.

Yours faithfully,

Blackburn, April 3.

R. L. GIFFORD.

SIR,—The action of the Lord Chancellor in bringing in his Bill to legalise limited company drug-trading ought to rouse the trade at large, and should unite us in one solid body to go to the House of Commons for redress at once. It is almost impossible to realise that we should be left out of the Bill introduced for the benefit of the several professions, still less that a Bill of such a retrograde character, legalising, as it will, unqualified limited company-trading, should have been introduced in the year of grace 1899. Be good enough, Sir, to inaugurate a powerful opposition to the one measure,

and we must try and get ourselves included amongst the favoured professions in the other.

Yours truly,

41 Prescott Street, Liverpool,  
April 4.

WALTER A. GRACE.

#### Retailers and the Adulteration Acts.

SIR,—If retailers of food and drugs wish to be relieved of the frightful incubus of the present unjust laws with regard to adulteration, they should act vigorously, unitedly, and at once. The Government Bill, as it passed its second reading in the House of Commons, does not contain the clauses recommended by the Committee on Food-products Adulteration for the relief of retailers from unjust convictions. The Bill has now been referred to the Standing Committee on Trade, and will shortly be reported to the House and probably passed. There is no time to lose, and every retailer should do his share towards amending the injustice of the existing law. If vigorous general action be taken now, there is every prospect of success; but if, through apathy, this opportunity be lost, it is not likely to occur again for a very long time, if ever. Chemists generally seem to be doing scarcely anything, although a few isolated individuals are putting forth strenuous efforts to impress our legislators with the necessity of altering the law and removing a gross injustice. For this purpose two statements have been prepared at great trouble and expense, with a view to influence the members of the Committee to whom it will be sent, and also to engage the sympathies of the principal newspapers in behalf of oppressed retailers. If a retailer asks, "What can I do?" it is replied that he can, at least, write to his parliamentary representative; and if he wishes to place in his hands a clear, strong, and accurate statement of our case, he cannot do better than procure copies of these two statements for enclosure. I am glad to be able to say that a few extra copies will be supplied to applicants by the well-known printers, Messrs. Gilbert & Rivington, of St. John's House, Clerkenwell, at about cost price—*viz.*, one copy of either for 2d., twelve copies for 1s. 9d., 100 copies for 12s. 6d., all post free. The first statement is entitled "How Adulterators Escape Scot-free whilst Innocent Men are Punished," and deals solely with the recommendation of the Committee that invoices should have the force of warranties and wholesalers and manufacturers should be made responsible for the goods which they sell. Important extracts are given from the official report of the Select Committee, and the matter is dealt with in such a way as to command the attention of those to whom it may be sent. The second statement is entitled "Eight Important Points in Relation to the Proposed Sale of Food and Drugs Act, 1899," and deals more generally with the subject, especially from the chemist's point of view. Every chemist should at least procure one copy of each statement and, if he approves of them, should send them to his parliamentary representative, unless he can prepare or obtain some other document which states the case in a manner which he considers to be more clear, accurate, and striking. There are several members who are already impressed with the necessity of adopting the Committee's suggestions, and it will not be difficult to so impress a sufficiently large number of members to ensure their adoption, if retailers will do their duty. Apathy at the present moment on the part of any retailer is inexcusable, whilst a few individuals are giving freely of their time and money for the general good. After the passing of this Bill, the Adulteration Acts will undoubtedly be enforced far more actively and severely than hitherto, and it is proposed to increase the penalties to 50% and 100% for the second and third offences respectively, and even imprisonment for two years is advocated by some members of the Committee to which the Bill has been referred. I enclose copies of the circulars referred to for your perusal, and I hope, Sir, that you will give the weight of your influence to further the interests of retailers in this matter. As I do not wish to parade what I have personally done for the general benefit, I subscribe myself,

Yours truly,

JUSTICE TO RETAILERS. (231/44.)

#### The Brennan Case.

SIR,—One of the most important points in this case turned out to be the interpretation of the term "liq. as." which

occurs in the prescription, and on this point I do not think that the chemists who gave evidence for the defence did justice to their knowledge of chemistry. From the newspaper report it will be seen that "as." was taken as a symbol, and not as an abbreviation, and here I respectfully beg to differ. The word "as." coming after the word liq. is either an abbreviation of the word "arsenicalis" or, as stated by the witnesses, it is merely a symbol. From the evidence given, the symbol denotes arsenic, and consequently the sentence was construed as meaning a solution of arsenic, and not the official alkaline solution, "liquor arsenicalis."

Now, "as." being the symbol for arsenium, which, as we all know, is not used in medicine, and the symbol for the anhydride being  $As_2O_3$ , I cannot but conclude that "as." was not intended to be a symbol, but an abbreviation; the sentence will therefore read, fully written, "liquor arsenicalis."

Yours truly,

H. TREMBATH, Ph. Chemist (Gt. Britain).

Johannesburg, March 11.

[Like some of the pharmaceutical witnesses, we were under the impression that Dr. Brennan wrote "liq. ars.," but what he wrote matters little in view of his own sworn statement that, when he meant Fowler's solution he wrote "liq. pot. ars." and "liq. as." when the acid solution was intended. Mr. Trembath's argument is right, but whatever the prescriber meant in this particular case there is no doubt that the hydrochloric solution of arsenic would be used by good dispensers; on the other hand, "liq. ars." or "liq. as." by itself means liquor arsenicalis.—ED. C. & D.]

#### The B.B.C.C. Concert.

Last November we reported a great annual concert held at the Cannon Street Hotel by the B. B. & Co.'s Cricket Club. Our report has gone out to India, and comes back to us in the following form:—

Half a pint! half a pint!

Half a pint inward!

As down to Cannon Street

Burgoyne's men wandered.

When the day's work was done,

After the setting sun,

Down to the "smoker" went

Nearly six hundred!

Well done, the druggist trade!

(Tho' 'tis but poorly paid,

And tho' the "cutting" shops

Prospects have darkened)

There, in a brave array,

That well-remembered day,

Spirits so light and gay

To the best artistes all

Eagerly hearkened.

Glasses to right of them,

Pipes in the mouths of them,

Programmes in front of them—

Cheered they, and thundered.

Ne'er had men sung so well;

Ne'er did such music swell,

Encore on encore,

In Cannon Street Hotel

Sat this six hundred.

Arnold was in the chair,

Brothers-in-trade were there,

Listening to music by

Great artistes rendered.

Filling the air with smoke,

Cracking their little joke,

Each other's ribs they'd poke—

Jovial six hundred!

Then they went home; but not—

Not like six hundred.

Next day they sought the aid

Of potash or lemonade,

And no one wondered

After a night like this—

After such glorious bliss.

Next year they'll meet again—

More than six hundred.

#### Tr. Nucis Vomicae.

SIR.—Your footnote on page 525 of this week's issue is misquoted. The tincture of nux vomica given as an example of a process had no reference at all to the present official tincture, but was an experiment based on the requirements of the 1885 Pharmacopœia; hence the total alkaloids only were estimated. The estimation was conducted on the stronger portion of the percolate before correction of volume with the weaker percolate. This is obvious from the reference to the latter, and needs no further comment on your part. Ext. nuc. vomic. liq., B.P. 1898, should contain approximately 6 gr. of strychnia per oz., but probably somewhere nearer 10 or 12 gr. of alkaloids. Thanking you for your notice and criticism,

Yours faithfully,

Birmingham, April 4.

JAS. SPILSBURY.

#### Erythrol Tetranitrate.

SIR.—If Colonel Ford will refer to THE CHEMIST AND DRUGGIST issue of January 8, 1898, he will find that the explosive conditions of erythrol tetranitrate have been considered by pharmacists. It is there shown that, under ordinary circumstances, the compound is not a violent explosive, but to be thrown into a waste-paper basket, and subsequently into a dustpan containing hot ashes, is hardly fair treatment. I hope H.M.'s Chief Inspector of Explosives will favour us with the particulars of the experimental conditions under which he has found erythrol tetranitrate so explosive; his suggestions, too, would, I am sure, be much appreciated.

London, April 3.

J. LANGFORD MOORE.

#### Miscellaneous Inquiries.

*We reply to subscribers and their employés only upon subjects of interest to other readers generally. When more than one*

#### Notice to Querists.

*query is sent write each on a separate piece of paper. When a sample accompanies a query full particulars regarding the origin and use of the sample must be given, and it must be distinctly labelled. Queries are not replied to by post, and those sent anonymously are disregarded.*

222/51. *One in Doubt.*—The English pronunciation of Latin is gradually becoming more assimilated to the continental practice, but the majority of chemists here pronounce Latin words as if they were English. In Scotland and Ireland the continental practice is more common. We have never heard that any pharmaceutical examiner has refused marks on account of pronunciation, and it would be unreasonable to do so in a matter of such diverse practice. The Secretary of the Pharmaceutical Society will return your birth certificate if you ask for this to be done.

224/30. *Cardiff.*—The question is one for the police inspector. It is not likely that the Public Prosecutor would take up the case except on the recommendation of the Magistrate after the first hearing.

215/49. *Hotspur.*—(1) In the formula for Red-water Tonic for cattle which occurs on page 19 (in most of the editions) of "Veterinary Counter-practice," the quantity of ether should read 2 dr., not 2 oz. The prescription is intended as a stimulant and restorative in exhaustion following red-water. The formula on page 142 is for a tonic which is intended to be taken for a longer period by large draught breeds of horses. It should be diminished somewhat for cattle. (2) Madder has no place in modern veterinary materia medica, as it does not possess medicinal properties.

58/6. *Jacobus.*—No doubt repeated application of hydrogen peroxide, 10 volumes, to the skin of the face will diminish the blue colour arising from black hair. Some irritation may follow, but this may be counteracted with cold-cream.

223/61. *Agricultural.*—You surely do not expect us to answer your query again. We have already given you two replies to this identical question.



214/43. *Vetuit.*—(1) Sweet-nitre Substitute for veterinary practice:—

|                   |     |     |        |
|-------------------|-----|-----|--------|
| Nitrite of sodium | ... | ... | gr. c. |
| Aldehyde          | ... | ... | 5j.    |
| Glycerin          | ... | ... | 5j.    |
| Water to          | ... | ... | Qj.    |

Mix.

Dose the same as for spt. aether. nit.

(2) We do not know what the old jug is intended for—a china-expert might tell you.

211/58. *Bogic.*—Veterinary Lotion for sore shouldrs.—This appears to consist of—

|             |     |     |        |
|-------------|-----|-----|--------|
| Liq. plumbi | ... | ... | 5j.    |
| Naphthæ     | ... | ... | 5j.    |
| Aquæ        | ... | ... | 5xvij. |

M.

219/38. *Hypo.*—The stick for Dishorning Cattle is caustic soda.

219/37. *J. R.*—The Worm-capsules for dogs. These consist of kamala 18 gr., santonin 2 gr. in each capsln. The quantity is only approximate, as the contents vary. The combination of kamala and santonin is becoming very popular. We thank you for your complimentary remarks.

211/57. *Wax.*—The phonograph-cylinder materials you send are carnauba wax and aluminium oleate. Aluminium stearate is also used for the same purpose, but most of the processes are covered by patents.

216/70. *A. S.*—The corrosion of the copper dome can be hastened by wetting it with pyroligneous acid, but if of considerable size it will hardly be worth the trouble. The formation of verdigris on copper-work exposed to the air is very rapid in London.

228/64. *C. J. D.*—Ferrotypes plates can be obtained from any wholesale photographic sundriesmen.

226/2. *H. W.*—The Preliminary examination is to be abolished after August, 1900. See Educational Number of the *C. & D.*, September 3, 1898, page 408.

230/34. *C. F. L.*—Salmon's "Dispensatory" in the Transvaal.—This book is well known to all pharmaceutical bibliophiles, but we fancy you are the first person to pick up a copy in the land of Kruger. That is the special value which is attached to your copy. It is worth exactly as much as you can get for it. It frequently sells here for 5s., although the first edition is worth more. It is a rather common old book.

207/1. *Anaconda.*—The Société Nationale d'Encouragement à l'Agriculture, 5 Avenue de l'Opéra, Paris, would probably furnish you with further information on the production of alcohol from beetroot.

226/6. *C. G. W.*—Evening classes in bacteriology were held last year at King's College, Strand, W.C. We do not know if they are still being held; you can inquire.

### Information Supplied.

**Acamulsia.**—A correspondent (231/38) sends us the formula for this emulsifying agent, which a subscriber asked about some time ago:—

|                |     |     |     |   |
|----------------|-----|-----|-----|---|
| Gum arabic     | ... | ... | ... | 5 |
| Gum tragacanth | ... | ... | ... | 5 |
| Corn starch    | ... | ... | ... | 5 |
| White sugar    | ... | ... | ... | 5 |
| Boric acid     | ... | ... | ... | 1 |

Dry separately and mix well. The directions for using it are—

Pour 8 fluid oz. of the oil into a quart bottle and agitate so as to cover completely the sides of the bottle with the oil. Now add  $\frac{1}{2}$  avoirdupois oz. of acamulsia, shake well for five seconds, pour in 8 fluid oz. of water and shake vigorously for two minutes. This completes the process of emulsification.

## Personalities.

DR. THOMAS GRIGOR BRODIE, lecturer on physiology at St. Thomas's Hospital Medical School, has been nominated by the Laboratories Committee of the Royal Colleges of Physicians and Surgeons to be director of the Research Laboratories on the Thames Embankment.

MR. WM. BRIGGS, chemist and druggist, Chcapside, Lancaster, has been re-elected for the tenth time Hon. Secretary of the Lancaster Photographic Society. There are only six of the original members of the Society left in a total membership of 125, and Mr. Briggs is one of them.

MRS. WILHELM MERCK has followed the generosity of her late husband towards the staff and workers of E. Merck by presenting to the staff 100,000m. for the establishment of a widows' and orphans' pension fund, and an equal sum for a similar fund on behalf of the workmen and workwomen of the factory.

MR. T. H. W. IDRIS, L.C.C., has taken the initiative in raising a fund to promote a memorial to Sir Sidney Waterlow, in recognition of his munificent gift of Waterlow Park to North London. It has been resolved that a bronze statue, with a suitable inscription, shall be erected in the park. Mr. Idris is one of the honorary secretaries of the fund.

By his will, proved with three codicils, the late Sir William Jenner, Bart., G.C.B., Physician to the Queen and Prince of Wales, who died on December 11, leaving gross estate sworn for probate at 385,083*l.* 18*s.* 5*d.*, bequeathed 10,000*l.* to the Royal College of Physicians, London. Subject to legacies to some relations, friends, and servants, the testator leaves his property for the benefit of his widow and family.

"THE FATHER OF THE DRUG-TRADE," now that the veteran Mr. A. S. Hill has gone to his rest, is Mr. George Tonge, formerly a partner in the Whitecross Street firm now Messrs. Hodgkinsons, Clarke & Ward. Mr. Tonge was born in 1807, and became a partner in 1837, when John and Richard Hodgkinson, Francis Stead, and himself were the firm. Mr. Tonge further cemented his attachment to the firm by marrying Miss Hodgkinson, sister of his partners. He retired from business in 1867, and now lives in Brighton where he enjoys fair health, but is rather hard of hearing.

## Business Changes.

*Notices of changes in the retail trade, and opening of new businesses, are inserted in this section free of charge, if properly authenticated.*

BOOTS (LIMITED) intend opening a branch, shortly, in High Street, Stamford.

MR. WILLIAM LAMONT, chemist, of Brechin, has removed into new and extensive premises at 41 High Street.

MESSRS. MOUSLEY BROTHERS, chemists and opticians, have opened branch-premises in Alcester Street, Redditch.

MR. JOHN GOWER, chemist, Llanelly, has bought the business lately carried on by Mr. Rogers at 14 Vaughan Street in that town.

MESSRS. BOOTS, cash chemists, who have seven shops in Manchester, announce that new branches will shortly be opened in Salford and Longsight.

THE premises of Mr. A. J. Wing, chemist and druggist, of 69 Powis Street, Woolwich, are being rebuilt in the course of the general rebuilding that is taking place on the Powis estate.

MR. WILLIAM LUCAS, chemist and druggist, Northampton, has removed into new premises which he has erected at the corner of Kettering and Artizan Roads, Northampton.

OWING to the widening of the South-Eastern Railway, Mr. W. S. Smith, chemist, who carries on business just outside Spa Road Station, Bermondsey, will remove to St. James's Road, Bermondsey.

## Trade Report.

The prices quoted below are the bottom prices obtained for bulk quantities by importers and manufacturers, who do not supply retailers. They are in many cases exclusive of various charges.

42 Cannon Street, London, E.C.: April 6.

**B****USINESS** has not yet recovered from the holiday stoppage. A few articles have changed since our last, and we confine our report to these and others of more than evanescent interest. Quinine in speculators' hands went down  $1\frac{1}{4}d.$  per oz. on Tuesday, owing to the Java bark shipments being better. We refer to this matter editorially. The following are the principal changes of the week:—

| Higher                                                                                  | Firmer                   | Lower                                                  |
|-----------------------------------------------------------------------------------------|--------------------------|--------------------------------------------------------|
| Ammon. carb.<br>Blue-flag root<br>Copper sulphate<br>Golden-seal<br>Salol<br>Turpentine | Cod-liver oil<br>Saffron | Canaryseed (Turk.)<br>Oil, cloves<br>Quinine<br>Senega |

The arrivals of drugs up to April 5 include the following:—Areca-nuts, 16; balsam copaiba, 30; benzoin, 10; buchu, 24; cardamoms, 337; castor oil (Ital.) 45, (Fr.) 56; chamomiles, 5; chiretta, 34; cinchona (Ceylon), 72; citronella oil, 37; coca-leaves (Ceylon), 11; cocaine, 5; cod-liver oil, 309; colocynth, 22; croton-seed, 6; dragon's-blood, 14; eucalyptus oil, 28; gentian, 11; honey (Jam.), 47; insect-flowers, 26; iodine, 1; ipecacuanha, 16; myrrh, 15; nux vomica, 1,713; quicksilver, 41; sarsaparilla, 72; squills, 5; tamarinds (W.I.), 62; vanilla, 14; wax (bees), 78; wax (Japanese), 10. The arrivals at Hamburg from April 1 include 2,894 cases and 510 tubes of camphor; 500 camphor oil; cajuput oil, 26; cassia oil, 10; manna, 41; galls, 229; and vegetable wax, 950 cases.

### Turpentine Unsettled.

Reports from the naval-stores men at Savannah regarding the turpentine situation predict still higher prices. The stock on hand at Savannah and other American ports is small—a few thousand casks, they say—and at London the stock is also light. The manufacturers using spirits are believed to have little or no stocks on hand, having pursued a hand-to-mouth policy for some months past, and the indications accordingly are for an unusually large spring demand. On the other hand, consumers argue that there is every probability of a decline, as, owing to the high price at which turpentine now rules, buyers will keep out of the market as much as possible, and only buy in small quantities to cover immediate needs. In the meantime, they acknowledge that visible stocks are low, but declare that several of the large dealers have heavy stocks, which they are desirous of unloading as soon as possible. [In London to-day the price is 31s. 10 $\frac{1}{2}$ d.]

### Heavy Chemicals.

[These prices are for market-centres other than London.]

The holidays have interrupted business somewhat in the heavy-chemical market as elsewhere since last writing; still, the present tone of the market and the general inquiry are quite equal to, if not better than, that lately reported. On the Tyne, although business is still somewhat dull, a better feeling prevails, and demand is sure to increase with the reopening of the Baltic, and stocks all round be lessened. Reports from the Clyde state that a heavier inquiry exists, whilst in the Lancashire district a very healthy tone is also apparent. The consumption of miscellaneous chemicals in the textile and other consuming trades is on the whole very fair. Dyers, bleachers, and calico-printers are generally well supplied with orders, and for the most part working full time. Carpet-manufacturers, too, are busy. The colour and paint trades

are perhaps a trifle quiet, but active preparations are being made for the coming season. Paper-makers and soap-makers are very busy, and the pottery and glass trades are also much busier than is usual at this season.

SULPHATE OF AMMONIA keeps very firm at about last quotations, and

SULPHATE OF COPPER remains steady.

ALKALI PRODUCE.—Caustic soda remains unchanged at late rates, and is very firm thereat, both for prompt and forward, demand being very good. Bleaching-powder is in heavy request particularly for export. Ammonia alkali, 58-per-cent., firm at 37. 17s. 6d. to 47. 2s. 6d. per ton, free on rails in bags. Salteake, steady at 30s. to 32s. 6d. per ton in bulk. Bicarbonate of soda in fair request, 67. to 67. 7s. 6d., f.o.b. Liverpool in 10-cwt. casks, and 67. 10s. for 1-cwt. kegs. Soda-crystals are steady, f.o.b. Liverpool 57s. 6d., and Tyne 52s. 6d. Yellow prussiate of potash maintains a strong position, and best Lancashire makes stand at 7 $\frac{3}{4}d.$  to 8d. Chlorate of potash unchanged at 3 $\frac{1}{2}d.$  to 3 $\frac{3}{4}d.$ , as is also chlorate of soda at 3 $\frac{3}{4}d.$  Soda ash, 48-per-cent., carbonated and caustic, 47. 2s. 6d. to 47. 17s. 6d. per ton free on rails. Silicates of soda are steady and meet with fair inquiry, 140° Tw., 37. 5s. to 37. 7s. 6d.; 100° Tw., 37.; and 75° Tw., 27. 12s. 6d. to 27. 15s., f.o.b. Tyne or Liverpool.

BROWN ACETATE OF LIME is steadier at 47. 15s. to 57. c.i.f.

ARSENIC.—White powdered is in heavy request, 177. Garston.

GREEN COPPERAS is in better demand, but figure remains unchanged at 42s. to 43s. f.o.b. Liverpool.

### Liverpool Drug-market.

Liverpool, April 5.

CASTOR OIL.—A steadier tendency marks the article, as sellers to arrive show little disposition to drop further. Spot quotations remain at 2 $\frac{1}{2}d.$  for good second Calcutta, and 2 $\frac{1}{4}d.$  for first-pressure French, while second-pressure French is fetching 2 $\frac{3}{4}d.$  to 2 $\frac{1}{2}d.$

FENUGREEK-SEED is in more abundant supply, and sales are reported at 7s. for good Alexandria.

AFRICAN GINGER is easing off slightly, owing to arrivals of the new crop, large sales being reported from the quay at about 20s. per cwt., but actual figures are not allowed to transpire.

GUM ACACIA.—Stocks are being slowly augmented by arrivals of small lots, and holders seem a shade easier in their views. Quotations still remain at 67s. 6d. to 75s. per cwt.

GUM TRAGACANTH.—A small parcel of good hog gum has changed hands at 20s. per cwt.

SULPHATE OF COPPER.—There is a well-marked upward move in this, and holders are firm at 247. 10s. to 247. 15s. per ton for prompt and near delivery.

BEEWAX continues to hold a strong position, most of the parcels appearing being readily taken up at full prices.

HONEY.—About 100 casks of fine Californian have changed hands at 40s. per cwt.; slightly darker grades are held for 35s. to 37s. 6d. per cwt. Chilian is firmly held at last prices.

### Tea Market.

Tea is still enjoying the most exhilarating boom that the market has known for a long time. In the middle of January clean common-leaf Indian and Ceylon could be bought at the very lowest point at 5d. per lb. At the beginning of March the same thing was eagerly snapped up at 6 $\frac{1}{4}d.$  per lb., and now a month later the price is 8d., and very little going at that figure. The rise has been continuous, from the bottom up to the present quotation, without a single day's weak market, and it is hard to see what is to prevent a still higher range of prices in the near future, for country buyers, as far as can be judged, are comparatively bare of stock, and sales for a month to come cannot be heavy. There is, of course, a good deal of tea in speculators' hands, but, as it has mostly been bought second-hand from dealers on the "three-months'-old papers" system, without the payment of the ordinary market deposits, and will not begin to come prompt till the middle of May, there is no immediate likelihood of any great quantity coming back on the market during April, and it is quite possible that the price of common tea may be squeezed up to 9d., or even 10d. Such a position, however, would be a gamble and not warranted by the existing shortage, and would probably not be long maintained. Better grades, now selling from 10d. to 11d., have been as cheap as common teas have been dear, though they are now beginning to be forced up.

### German Market.

Hamburg, April 4.

We had a holiday-market this week, and very little business has transpired.

CAMPHOR (REFINED) is quiet, as crude camphor is reported lower; factory prices are unchanged; second-hand is held for 340m. per 100 kilos



ERGOT OF RYE.—Quiet. Good sound Russian is quoted 190m. to 185m. per 100 kilos. for spot delivery.  
 IPECACUANHA is almost unchanged. Rio is not offering. Carthagena slightly easier at 16m. per kilo.  
 MENTHOL is dull, at 14½m. per kilo.  
 LYCOPodium remains firm at 247½m. to 248m. per 100 kilos.  
 QUININE shows a quieter disposition; the factories still ask 57m. to 58m. per 100 kilos., while second-hand sellers seem willing to realise their profits, and probably 55m. per kilo. will buy here to-day.  
 SPIRITS OF TURPENTINE are a little quieter, at 70m. per 100 kilos. for prompt delivery.  
 WAX (JAPAN) is steady on the spot at 61m. per 100 kilos.  
 COD-LIVER OIL is firm, at 62m. per barrel for 1899 non-congealing oil.

### American Markets.

*New York, March 28.*

Business continues fairly active, at firm prices. Interest is centred on quinine, which continues steadily upward.

OPIMUM continues weak and unsettled. The ruling quotations are lower, at \$2.95 to \$3, and it is claimed that at this figure all sales are made at a loss. Keen competition and speculative movements are responsible for the depression, and holders do not anticipate an early improvement.

QUININE continues extremely strong. Domestic manufacturers have advanced prices to 38c., and will only sell in small lots. Foreign makers have practically withdrawn from the market.

CINCHONIDINE continues strong in sympathy with quinine and bark, and holders still quote 18c. Small lots in second hands are offered at 17c.

COLOCYNTH.—Firm, in sympathy with foreign advices, and higher prices are anticipated. At present, 38c. to 50c. is quoted, according to grade.

OIL OF PEPPERMINT.—Unchanged and easy. The spot-market is 75c. to 85c. for Western, and 90c. to \$1.05 for Wayne County.

IPECACUANHA continues firm and in fair demand, at \$3.25 to \$3.40.

THYMOL has advanced, owing to scarcity, and holders now quote \$2.40 to \$2.50.

SALICYLIC ACID has declined, owing to competition, and can now be bought at 36c. Salicylates have declined in sympathy.

### Cablegrams.

NEW YORK, March 30, 2.58 P.M.:—Business here is quiet, owing to the holidays. The latest quotation for quinine from makers is 40c. per oz., and from second hands 36c. Cinchonidine has advanced to 20c., after a good business (30,000 oz.) at 18c. for account of manufacturers. Cascarella is firmer at from 7½c. to 12c. per lb. as to quality. Golden-seal root (hydrastis) is also firmer, after the slight decline: 68c. per lb. is now wanted; on the other hand, senega is easy at 24c. per lb.

\* \* \* \*

HAMBURG, April 6, 11.23 A.M.:—Business is slow in this market. Quinine still maintains its value at 58m. per kilo. Camphor is easier and cheaper in second hands for refined—viz., 335m. per 100 kilos. Oil of turpentine is firm, at 69m. per 100 kilos.; and menthol is quiet at 14m. per kilo.

\* \* \* \*

BERGEN, April 6, 11.55 A.M.:—The fishing continues poor, the catch to date amounting to 18,681,000 cod, against 23,297,000 at the same time last year. The livers are very fat still, and the smaller number will yield 18,807 barrels of unrefined oil, against 15,164 barrels from the larger number of 1893. The market is quiet, and steam-refined medicinal oil is quoted at 58s. per barrel, f.o.b.

\* \* \* \*

NEW YORK, April 6, 2.53 P.M.:—Business is better than was generally expected for Easter week, and the leading staples are showing up well. Opium is dull, at \$2.93 per lb. Quinine still keeps its strong position, and is selling at 36c. to 40c. per oz., according to holder and delivery. Sugar of milk is again higher, 10c. per lb. being the price. Elemi, owing to scarcity, has advanced to 15c. per lb. Serpentry-root has also advanced to 30c. per lb., but Mexican sarsaparilla is easier at 10c.

### London Markets.

AMMONIA CARBONATE.—Owing to the advance in sulphate, some agents have raised their price for carbonate about 5 per cent, and 3d. per lb. net on the spot is the lowest at

which large quantities can be bought. It is reported that English manufacturers have come to an agreement to establish a uniform price for this article in foreign markets.

ARSENIC has slightly advanced owing to the rumours of a combination. Best English white powder is quoted 18l. per ton *ex ship*; there are offers from Garston at 17l. 5s. per ton.

BLUE-FLAG ROOT is exceedingly scarce in New York, and 8d. per lb. c.i.f. is the nominal quotation. There is a little to be had here at 7d. per lb. Higher rates for iridin are expected.

CAMPHOR.—Up to Thursday no business had been done. Cables from China to-day quote 139s. per cwt. c.i.f., and Japanese at 142s. 6d. nominally, with a good demand from America. There are sellers on the spot in second-hand at 132s. 6d. c.i.f.

CARDAMOMS.—Mysore and Malabars of medium qualities have been dealt in to a fair extent at from 1s. 10d. to 3s. 3d. per lb. A large quantity will be offered next week. The Ceylon shipments from January 1 to March 14 were:—

| Lbs. | ... | ... | 1899    | 1898    | 1897   | 1896   |
|------|-----|-----|---------|---------|--------|--------|
|      |     |     | 124,683 | 101,269 | 73,800 | 64,902 |

For the week ending March 14 28,855 lbs. were shipped.

CASCARA SAGRADA.—New bark has been sold this week in ton lots at 32s. 6d. per cwt. c.i.f., and old at 35s.

CINCHONA.—The Ceylon shipments for the week ending March 14 were 22,832 lbs., bringing the total from January 1 to that date to 141,576 lbs., as compared with 164,188 lbs. on the same date in 1898, 87,355 lbs. in 1897, and 72,056 lbs. in 1896. In Amsterdam last week 1,134 bales of bark were received from Java. The bark shipments from Java during March, 1899, have been 977,000 Amsterdam lbs., against 700,000 in 1898, 504,000 in 1897, 557,000 in 1896, 449,000 in 1895, 522,000 in 1894, and 628,000 in 1893. The totals from January to March were: In 1899, 2,025,800 Amsterdam lbs.; 1898, 2,353,000; 1897, 1,350,000; 1896, 2,073,000; 1895, 1,862,000; 1894, 1,873,000; 1893, 1,881,000.

COCOA BUTTER.—At the Amsterdam auctions on Tuesday 70 tons Van Houten's sold at 70½c. to 72½c. per half kilo.; 2½ tons Helm brand at 71½c. to 72c.; and 1 ton Hamer at 72½c. per half kilo.

COPPER SULPHATE.—Dearer, owing to the rise in copper; The quotations on the spot now range from 23l. to 25l. 10s. per ton, the latter for Anchor brand; Macclesfield is 25l. f.o.b. Liverpool.

CREAM OF TARTAR is very quiet, with an easier tendency.

CUTTLEFISH-BONE.—The exports from Ningpo in 1898 were 46,547 cwt., valued at 55 131l., as compared with 32,775 cwt., valued at 35,102l. in 1897.

ENGLISH HERBS.—We hear that the crops of belladonna and henbane are not looking well, and the harvest will not be beyond that of last year, so that the present high prices are likely to be maintained.

GALLS.—Blue Smyrna galls have been sold at 57s. 6d. per cwt. spot.

GAMBOGE.—No business this week; for first-pile pipe 9l. per cwt. is wanted.

GOLDEN-SEAL ROOT is very scarce, and the New York market has advanced to 70c., or about 3s. per lb., c.i.f. There is very little to be had on the spot, and from 3s. to 3s. 3d. is asked. From New York advices we gather that a decided advance is expected on good autumn-dug root.

GUM ARABIC.—Inferior to good worked Persian insoluble sorts have sold in a small way at 18s. and 22s. per cwt.

GUM TRAGACANTH.—Good pale hog gum has been more inquired for lately, and good pale has realised 55s. to 57s. 6d. per cwt., and from 37s. 6d. to 42s. 6d. for lower grades.

GUMS (VARNISH).—At auction to-day, 7,349 packages were catalogued, but nothing sold to any extent but Kauri and copal. Of the 4,751 packages of Kauri offered, 2,576 were disposed of, and 904 packages of copal were sold out of a total of 2,037. Animi and olibanum were in small supply, and Kurrachee seedlac, grass-tree gum, accroides, and some fine Australian gum sandarac were unnoticed. The following are some of the prices obtained:—

ANIMI.—Mixed small to bold pale and ambery Zanzibar sorts, 9l. 10s.; weaker, 6l.; ambery and red small to medium, 5l. 5s.



**DAMAR.**—Of 268 cases Singapore offered 121 sold. These were most mostly poorer sorts. Good pale, 70s.; ambery, 43s. 6d.; small pale mixed with dark, 34s.

**COPAL.**—Some fine lots were offered. Fine bold pale Branea, 88s.; good bold pale, 75s. to 80s.; fine selected, 53s. to 60s.; reddish, 50s. to 51s.; good ambery, 42s. 6d.; bold dark, 38s. 6d.; bold pale to brown chips, 28s. to 31s.; darker, 22s. to 22s. 6d.; small pale chips, 16s. to 18s. 9d.; nubbles, 17s. 6d.; dark chips (small), 12s. 3d. to 12s. 6d.; blocky and dusty, 10s. 9d.; dust, 9s. 6d. to 10s.; low and woody, 7s.

**KAURI.**—Fine Dial, 15l. to 15l. 10s.; pale to ambery ditto, 12l. 2s. 6d. to 13l. 5s.; pale to red re-scraped, 10l. 5s.; darker, 9l. to 9l. 15s.; good pale scraped, 8l. 10s.; good bright chopped, 7l. to 7l. 15s.; fine bold selected, 7l. 7s. 6d.; good bold ditto, 5l. 15s. to 6l. 10s.; good brown sorts, 5l.; brown chips, good, 92s. 6d. to 95s.; fair, 83s. to 84s. 6d.; darker, 72s. to 74s.; pale chips, 80s. to 84s.; weaker, 42s. 6d. to 45s.; loose collected, 53s.; pale dust, 38s. to 39s. 6d. Bush pale chips, mixed with brown, 80s. East Coast chips, 65s. to 72s. 6d.; dust, 35s. to 37s. Three-quarter scraped and half-scraped varieties would not sell. The former was bought in at 97s. 6d., and the latter at 72s. per cwt.

**JALAP** is arriving freely in New York, and lower prices are looked for. Here the market is quiet.

**OIL, CASTOR.**—Dull at the easier tendency of last week. Hull made is 23l. 15s. to 25l. 5s. per ton in barrel; London pressed is 25s. per cwt.; Belgian, first pressing, 25l. spot, and second pressing 24l. Best Italian odourless is 33s. per cwt., c. & f. London.

**OIL, CLOVES.**—English distillers have reduced their price 1d. per lb. on March 30, making current quotation 2s. 8d. per lb., or 1d. less for twelve W. quarts.

**OIL, COD-LIVER.**—A slightly firmer tone has crept into this market this week because the fishing is at its critical point, and the statistical position is not likely to be much improved. Prices are not higher, however, and business is limited.

A Tromsø correspondent, writing on March 21, states that the demand all through March was poor, and that the current quotation of 60s., c. i. f., is pretty near the cost price. The season is now far advanced, and the course of the market will greatly depend on the fishing during the week now closing. The catches (in millions) and yields of crude oil (in hectolitres) on or about March 21 during the past six years have been as follows:—

|          | 1899              | 1898              | 1897              | 1896              | 1895              | 1894              |
|----------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Fish ... | 18 $\frac{3}{10}$ | 21 $\frac{3}{10}$ | 21 $\frac{3}{10}$ | 23 $\frac{3}{10}$ | 18 $\frac{3}{10}$ | 21 $\frac{3}{10}$ |
| Oil ...  | 14,200            | 12,300            | 15,400            | 6,400             | 8,700             | 10,000            |

**OIL, OLIVE.**—A Leghorn correspondent informs us that new-crop Lucca (cream extra) is offered at 56l. per ton in pipes, and E. S. 51l., c. & f. London. Syrian oil is offered here at 3s. 3d. to 3s. 4d. per gal. ex wharf.

**OIL, SANDALWOOD.**—English-drawn oil is quoted 12s. per lb.

**OPIMUM.**—Quiet, with small sales of medium Persian at 10s. 6d.

**CONSTANTINOPLE, April 1.**—A quiet and easy tone has prevailed during the past week, the only sale being a parcel of 7 cases at the equivalent of 7s. 7d. per lb., f. o. b., for druggists.

**SMYRNA, March 25.**—Owing to some interior speculators coming forward early this week, the market advanced 2d. per lb. all round, but at the advance none of the principal buyers came forward, and as there has been abundance of rain, and everything looking favourable for the growing crop, prices are likely to decline again to last week's figures—viz., 7s. 9d. to 8s. 2d., as to quality. This week 23 cases have changed hands at from 7s. 10d. to 7s. 11d. for choice Karahissar; and 8s. 1d. per lb., c. i. f., for "inspected." The arrivals are 1,405 cases, against 3,430 at the same period of last year.

**SMYRNA, March 31.**—Crop prospects continue favourable, but a severe frost has brought about an unwarranted firmness in the market, so that prices are about 2d. per lb. higher than a fortnight ago, to-day's quotations being:—Current talequale, 7s. 8d. to 7s. 9d.; selected manufacturing, 7s. 10d. to 7s. 11d.; Yerli talequale, 8s. to 8s. 2d.; and Karahissar talequale, 7s. 10d. to 8s. per lb., f. o. b. If the consuming markets do not respond, a decline equal to the rise is inevitable. The sales this month amount to about 120 cases, a large part of which have been taken for the English markets. The stock now is calculated to be about 1,600 cases here, and 280 in Constantinople, exclusive of speculative holdings.

**QUININE.**—Our last report closed on Wednesday, March 29, when the second-hand spot price for German sulphate in 100-oz tins in 1,000-oz lots or more was 1s. 8 $\frac{1}{2}$ d. On March 30 a fair business was done at 1s. 8 $\frac{1}{2}$ d. to 1s. 8 $\frac{1}{2}$ d. on the spot, up to 1s. 9 $\frac{1}{2}$ d. to 1s. 9 $\frac{1}{2}$ d. for October delivery. This

week's business opened on Tuesday with marked depression, small spot sales being made at 1s. 7 $\frac{1}{2}$ d. This easier tone prevailed yesterday, and sales were again effected at that figure, but the market closed at 1s. 8d. and 1s. 9d. for August delivery. To-day there is a complete absence of buyers, and the closing price is nominally 1s. 8d. per oz.

We have already mentioned that 1,172 cases (=470,800 oz.) of Java quinine were shipped to Europe in 1898. In February of this year 51 cases were shipped to New York and 25 cases to Amsterdam, but we have not yet received the complete statistics for the month.

**SAFFRON.**—Firmer. Best Valencia is 42s. 6d. per lb.

**SALOL.**—The convention has fixed the price at the equivalent of 3s. 7 $\frac{1}{2}$ d. per lb., less discounts, in 20 to 100-kilo, lots. The agent of an outside maker here quotes 3s. 1d. per lb. for less quantities than 100 kilos.

**SARSAPARILLA.**—Arrivals of Lima and Jamaica have come to hand this week and will be offered at next week's auctions. A parcel of Guayaquil is also on the way.

**SEEDS.**—*Anise* steady, but little doing. *Caranays* quiet and unchanged at 22s. 6d. per cwt. *Coriander* slow at 8s. per cwt. for fair Morocco. *Cumin* dull; Malta sells at 22s. to 25s. per cwt. for ordinary and at 29s. for good; Mogador at 22s. to 24s. 6d. *Canary* lower at 25s. 6d. to 26s. for Turkish; but the better qualities are scarce, and firm at 30s. to 34s. for good to fine Tangiers. *Fennugreek* quiet at 7s. 6d. per cwt.

**SENEGA**—Easier, at 1s. 0 $\frac{1}{4}$ d. per lb., c. i. f., for Western root

**SPICES.**—There were no public sales this week owing to the Easter holidays, and very little business has been done privately. Zanzibar *Cloves* are lower, April-June delivery having been sold at 3 $\frac{3}{8}$ d. per lb. *Pepper* firm, the shipments continuing on a small scale; Singapore black is worth 5 $\frac{1}{4}$ d. per lb. on the spot; Singapore white 8 $\frac{3}{4}$ d.; Penang white 7 $\frac{1}{4}$ d. *Cassia lignea* sells slowly at 48s. per cwt. for good selected new crop. There is more inquiry for Japan *Ginger*, but no sales are reported; 20s. per cwt. is the quotation.

**SUGAR OF LEAD.**—The convention of foreign manufacturers terminated on April 1, and it is not anticipated that there will be a renewal of the agreement. Foreign white has an easier tendency, at 25s. 6d. per cwt. on the spot, and English 30s. to 31s. per cwt.

**TURMERIC.**—Quotations are firm, but little doing. Madras finger is 32s. 6d.; Chinese, 22s.; Bengal, 18s. 6d.; and Cochín split bulbs, 10s. 6d. per cwt. The shipments from Shanghai during January were 249 piculs.

**VANILLA.**—A moderate quantity will be offered at the drug-auctions next week.

Mr. Harold Baty, a Seychelles planter, writing to the *Ceylon Observer*, expresses satisfaction with the present state of the vanilla-market and the quality of the last crop, but adds: "I fear the crop of 1899 will not be nearly so good. The owners of low-lying estates complain that the dry weather was too prolonged. In the hills, on the other hand, we had a splendid show of buttons, and just as flowers were appearing down came the rain steadily for two or three weeks. In the islands reports are more satisfactory. From my own island—Felicite—I hear that there is an excellent show of unusually long pods." He counsels caution in regard to investing in Seychelles adventures, as the islands are at present on a boom. A firm in the same place (Mahe) say that prospects are at present very bright owing to the steady decrease of the Bourbon crop and the comparatively small crops of Mexico. Over 2,000 lbs. of vanilla shipped in 1898 realised 24s. all round per lb. Ceylon people are inclined to rush for the Seychelles. If they do not take care they will spoil the vanilla-market next.

**JAMAICA'S TARIFF BILL.**—Efforts are being made to increase the Jamaican tariff, rendered necessary by the colony's financial crisis, but when the measure was introduced by the Governor, Sir Augustus Hemming, the opposition of the elected members of the Legislative Assembly was so great that the passage of the Bill was an impossibility. The Governor thereupon issued a proclamation dissolving the Assembly, and stating that, by the advice of Mr. Chamberlain, he would argue the official element in the new Assembly to force the Tariff Bill through. The present constitution of Jamaica has been in force for fifteen years, but this is the first time the Government has availed itself of the power conferred on it to dissolve the Legislature and add to the nominated members of the Assembly.



## London Drug Statistics.

THE following statistics are compiled from information supplied by public warehouses. They relate to the receipts and deliveries of some of the leading drugs from and into the London public warehouses from January 1 to March 31, 1899, and to the stocks on March 31. Their accuracy cannot be guaranteed.

|                       | March  |         | Stocks  |         | 1899    |         |
|-----------------------|--------|---------|---------|---------|---------|---------|
|                       | Landed | Delivd. | 1899    | 1898    | Imprtd. | Delivd. |
| Aloes ..... cs &c.    | 252    | 229     | 2,563   | 2,672   | 283     | 548     |
| "..... gouris         | —      | —       | 2,227   | 2,418   | 744     | 237     |
| Aniseed, star .. cs   | 204    | 19      | 210     | 76      | 229     | 24      |
| Balsam..... csks &c.  | 542    | 45      | 815     | 408     | 714     | 274     |
| Calumba-root .. bgs   | 108    | 170     | 569     | 123     | 282     | 249     |
| Camphor..... pkgs     | 106    | 285     | 4,789   | 11,433  | 881     | 1,986   |
| Cardamoms .. cs &c.   | 370    | 331     | 1,652   | 1,170   | 1,197   | 806     |
| Cinchona..... pkgs    | 1,568  | 2,751   | 18,878  | 20,309  | 4,108   | 5,231   |
| Gubebs..... bgs       | 80     | —       | 1,880   | 1,629   | 127     | 90      |
| Dragons' blood .. cs  | 8      | 7       | 38      | 29      | 37      | 46      |
| Galls..... pkgs       | 2,299  | 497     | 3,841   | 3,085   | 2,440   | 1,580   |
| Gums—                 |        |         |         |         |         |         |
| Arabic..... "         | 3,340  | 2,214   | 12,593  | 11,543  | 4,926   | 5,271   |
| Ammoniacum .. "       | —      | —       | 102     | 36      | —       | 6       |
| Animi & copal .. "    | 4,077  | 4,228   | 15,944  | 19,536  | 12,195  | 10,527  |
| Asafetida .. "        | 402    | 123     | 621     | 651     | 673     | 339     |
| Benzoin .... "        | 1      | 270     | 1,365   | 2,507   | 165     | 944     |
| Damar .....           | 296    | 414     | 3,279   | 3,518   | 1,308   | 1,161   |
| Galbanum .. "         | —      | 3       | 19      | —       | —       | 11      |
| Gamboge..... "        | 13     | 23      | 317     | 304     | 13      | 83      |
| Guaiacum .. "         | 30     | —       | 62      | 73      | 31      | 27      |
| Kauri .....           | 659    | 422     | 921     | 489     | 1,287   | 978     |
| Kino..... pkgs        | 43     | 2       | 109     | 41      | 51      | 8       |
| Mastic .....          | —      | 10      | 29      | 23      | 10      | 11      |
| Myrrh .....           | 19     | 18      | 378     | 473     | 56      | 116     |
| Olibanum .. "         | 894    | 679     | 3,890   | 2,314   | 2,409   | 1,834   |
| Sandarac .....        | 108    | 80      | 759     | 864     | 337     | 349     |
| Tragacanth... "       | 1,827  | 769     | 1,934   | 2,881   | 2,620   | 2,171   |
| Ipecacuanha, Rio bls  | 75     | 42      | 78      | 184     | 91      | 171     |
| " other kinds pkgs    | 30     | 10      | 53      | 60      | 93      | 83      |
| Jalap .....           | 25     | 21      | 304     | 311     | 35      | 34      |
| Nux vomica .. pkgs    | —      | 7       | 128     | 168     | 78      | 86      |
| Oils—                 |        |         |         |         |         |         |
| *Anise .....          | —      | 11      | 276     | 122     | 60      | 61      |
| *Assia .....          | —      | —       | 73      | 114     | —       | 3       |
| Castor..... pkgs      | 286    | 116     | 931     | 573     | 616     | 433     |
| Cocoa-nut .. tons     | 20     | 99      | 134     | 105     | 253     | 290     |
| Olive .....           | 157    | 156     | 721     | 800     | 678     | 506     |
| Palm .....            | 1      | 2       | 4       | 16      | 6       | 9       |
| Quinine sulph.. lbs   | 13,793 | 3,035   | 131,715 | 107,479 | 28,801  | 9,335   |
| Rhubarb .....         | 80     | 116     | 1,460   | 803     | 235     | 402     |
| Senna .....           | 118    | 375     | 885     | 833     | 592     | 925     |
| Shellac, all kinds cs | 3,148  | 4,027   | 46,203  | 56,501  | 9,796   | 12,661  |
| Turmeric .....        | 29     | 53      | 200     | 256     | 45      | 96      |
| Wax, bees' .....      | 182    | 319     | 1,146   | 1,423   | 592     | 1,135   |
| " Japan..... "        | —      | 36      | 107     | 396     | 372     | 243     |

\* Stocks of aniseed and cassia oils lying at Smith's Wharf and Brewer's Quay are not included in this return.

† Includes the quantity at Red Lion, Ball, and Smith's Wharves; also the Docks.

NOTES ON THE STATISTICS.—The stock of aloes in cases is the lowest at this time of the year for six years. The stock of arrow-root improved during March by 1,100 packages and now stands at 4,428, or a little less than half what it was last year at this time. Cubebs are accumulating rather rapidly, although the imports are exactly  $\frac{1}{10}$ th of the first quarter of 1898, and the deliveries three times more. The figures for gum benjamin are remarkable. The deliveries were mostly Sumatra, and are not beyond the average—in fact, 1,211 cases were delivered in the first quarter of 1898 and 1,283 in 1897, compared with 944 this year and 884 in 1896. The stocks are the lowest since 1896, when 1,523 were in the warehouses. The stock of ipecacuanha (both kinds) has improved to the extent of 53 bales since February. Nux vomica is shrinking, but quinine sulphate has advanced with the speculation. The imports are almost double those of February—13,399 lbs., against 7,536 lbs.; and the deliveries of the month less—3,035 lbs., against 4,210 lbs. in February. The present stock is the best since 1895, when 157,950 lbs. were lying in the public warehouses. The bark figures are just the opposite, and we cannot do better than show the figures (in packages) for six years on March 31 each year:—

|                  | 1899   | 1898   | 1897   | 1896   | 1895   | 1894   |
|------------------|--------|--------|--------|--------|--------|--------|
| Imports .....    | 4,108  | 8,862  | 2,351  | 5,475  | 5,906  | 7,110  |
| Deliveries ..... | 5,221  | 5,248  | 3,574  | 6,081  | 6,217  | 7,848  |
| Stocks .....     | 18,878 | 20,309 | 20,970 | 23,144 | 31,750 | 37,103 |

These figures speak for themselves; the deliveries are not excessive, but the imports are below the average. The rhubarb stock is growing, and senna is not quite so bad as it was this time last year, when, however, it was thought to be at the worst possible.

## At the Counter.

SENT by Mr. Cooper, 151 Hoxton Street, N.: "Hipuater-cakir-wine," "Hober deal dock."

"ONE boll of gresie, 1 cedler power," was a Colchester order, for which a bottle of glycerin and a seidlitz powder were supplied.

"2 PENNYWORTH of oinment for a bad attack of pails owing through the direar." This is an order sent to us by a Watford chemist.

AT A BERMONDSEY COUNTER:—"One penn'orth each of squirrels, polecats (paregoric), and foxeslungs." All duly supplied.—R. B.

FROM a Shanghai correspondent:—"A Chinaman innocently asked if a teaspoonful of gunpowder would act as a good purgative, as an English sailor had said that it would; Irish picture oil (Ayer's pectoral supplied); black drife (for black draught); epocalitus (for eucalyptus oil)."

HULL furnishes the following order:—"One pennyworth surep of Talue," "one pennyworth of meusege of cumarabick," "half penny of lime wortter." It is not creditable to the Hull School Board that water should be the worst-spelled word in the order.

MR. A. H. CUPIT, 2 Upper St. James Street, Brighton, writes:—"These are a few orders I have been favoured with in twelve months (a pennyworth in each case):—Amenorrhoea (ammonia supplied); blue junction; electric jam (lenitive electuary); billy goats pills (pil cochia); Beecham's 'orribles; organic acid (oxalic supplied); I require it (hiera picra); liquid powder (liquorice); cemetery ointment (presumably to bury the lice in); pellar eucher's pills eackunpucker (ipeacuanha)."

## Coming Events.

## Monday, April 10.

*Society of Chemical Industry (London Section)*, Burlington House, Piccadilly, at 8 P.M. Dr. J. T. W. Thudichum on "The Industrial Technical Treatment of Sherry and of British Colonial Wines."

*Pharmaceutical Society of Ireland*. Evening meeting, at 8.15 P.M. "Petroleum Products," by Mr. R. J. Downes.

*Midland Pharmaceutical Association*, Birmingham. Lecture at Mason College by Dr. Leedham-Green on "The Sterilisation of Milk."

*Dewsbury and District Chemists' Association*, at Town Hall, Dewsbury, at 8 P.M. Discussion on the Pharmacy Bill 1899.

## Tuesday, April 11.

*Royal Photographic Society*, 12 Hanover Square, W., at 8 P.M. Mr. E. W. Maunder on "The Correct Exposures to be Given to Photographs of the Corona."

## Wednesday, April 12.

*Manchester Pharmaceutical Association*. Annual meeting. *Sheffield Pharmaceutical and Chemical Society*, at 8.30. "The Chemical and Microscopical Aspects of Blood," by Mr. C. D. Morrison.

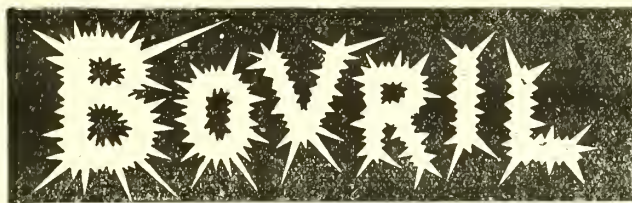
*Edinburgh Chemists', Assistants', and Apprentices' Association*, at 36 York Place, at 9.15 P.M. Annual meeting.

*Society of Arts*, John Street, Adelphi, W.C., at 8 P.M. Mr. J. Gavey on "Telephones."

## Thursday, April 13.

*Royal Institution of Great Britain*, Albemarle Street, Piccadilly, W., at 3 P.M. Professor Dewar on "The Atmosphere." *Glasgow and West of Scotland Pharmaceutical Association*, 94 West Regent Street, Glasgow, at 9 P.M. Annual meeting.

*The Liverpool Chemists' Association's Jubilee dinner* will take place at the Exchange Station Hotel, on Thursday, April 20 at 7.30 P.M. Tickets, 5s. each, may be had from Mr. Hugh O. Dutton, Rock Ferry, or from members of the Council.



## A Record Year.

DURING the past year, according to the report recently laid before the Shareholders at the General Meeting of Bovril, Limited, the sales of Bovril reached a figure eclipsing all previous returns. Chemists and others who keep adequately stocked will continue to reap the benefits accruing from this rapidly-increasing public support, the demand having been consistently maintained by the liberal advertising, which has been one of the features of the trade during the winter season.

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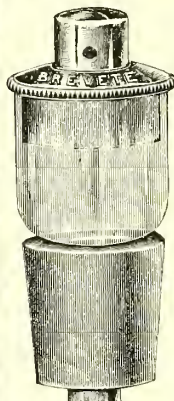
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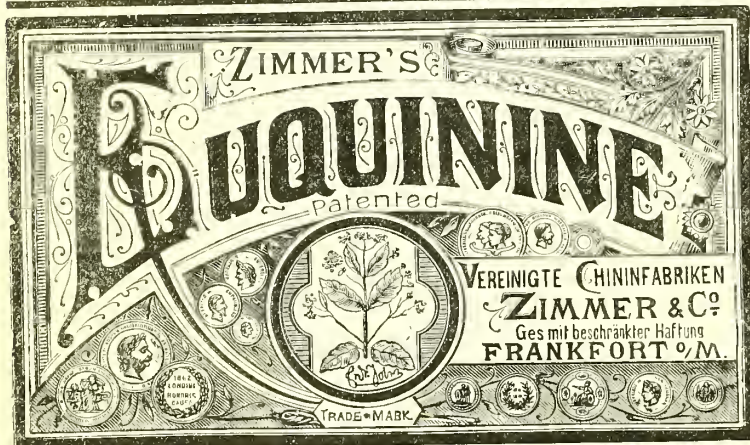
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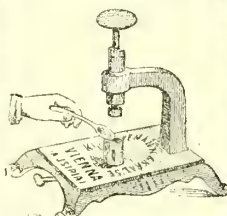
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## LOFTHOUSE & SALTMER,

**MANUFACTURING CHEMISTS, WHOLESALE & EXPORT DRUG MERCHANTS, HULL.**

Manufacturers of Granular Effervescent Preparations. We shall be glad to give specially favourable quotations, and send samples of our superior Nos. 1, 2, and 3 qualities of **CITRATE OF MAGNESIA**.

### IMPORTERS OF

Cod-liver, Castor, and Olive  
Oils; Extra Super Essence of  
Lemon and Bergamot, Otto de  
Rose, and all Essential Oils.



### IMPORTERS OF

Valentia Saffron; Vanillas;  
Fruit Essences; Carmine,  
Aniline Dyes; Bees' Wax,  
selected Smyrna Opium, &c.

**MANUFACTURERS** of Very Superior Flexible Gelatine Capsules of Balsam Copaiba, Cascara Sagrada, Castor Oil, Cod-liver Oil, Santal Oil, and Bland's Pill Capsules, equal to 1, 2, and 3 pills. Samples and Lowest Quotations per 1,000, or in Boxes for Retail, will be sent on application for either the Wholesale or Retail Trade.

# CHINOSOL

**ANTISEPTIC**

**DISINFECTANT**

**DEODORANT.**

**NON-POISONOUS. NON-CORROSIVE. NON-VOLATILE. READILY SOLUBLE. VERY PORTABLE. ECONOMICAL.**

**CHINOSOL** in its various forms is now supplied to the **Metropolitan and Counties' Asylum Boards, Infirmaries, Hospitals, &c.** A large circle of the Medical and Surgical Profession have adopted Chinosol in preference to other well-known Antiseptics in the market.

*The Sanitary Institute awarded the Bronze Medal to the Chinosol Exhibits shown at*

**LEEDS SANITARY CONGRESS, 1897, AND AT  
BIRMINGHAM SANITARY CONGRESS, 1898.**

FOR PRICE LIST and COMPLETE LITERATURE APPLY TO—



Trade Mark.

**THE CHINOSOL HYGIENIC CO., LIMITED, 36 St. Mary-at-Hill, London, E.C.**

Address—"Carmines London."

Telephone—Avenue 5978.

**B. KÜHN, Manager.**



# GOOD SELLING LINES

— A GOOD SELLING LINE. —

**HAVE YOU A DOG?**  
**SECURE ITS HEALTH BY USING**  
**TASTELESS**  
**SOLUBLE** Transparent Coated  
**DOG PILLS**  
(WAND'S).  
**APERIENT PILLS, ALTERNATIVE PILLS,**  
**ANTI-RHEUMATIC PILLS, WORM PILLS;**  
**ASTRINGENT PILLS, COUGH PILLS,**  
**DISTEMPER PILLS, TONIC PILLS,**  
**6d. Per Box.**  
Tasteless and Smaller in Size than ordinary Dog Pills, they can be given with greater ease.  
**WAND, Leicester.**

The Annexed Sketch shows case containing 1 doz. boxes size, to Retail at 6d.; 4/- per 1 doz. box, carriage paid.

**BLAUD IRON TONIC PILLS**  
Dose - Two or Three 3 times daily immediately after food.  
W.P.F.L.  
Made according to the Recipe of Dr. BLAUD.

PINK or WHITE. 2 d. per gross on 10 gross lots. Neat and telling label in blue ink.  
1 Gross in Metal Capped Bottle. 3 6 per doz.  
1-Gross Bottles, 3 8 per dozen. 1-Gross Bottles, 3 0 per doz.

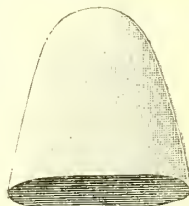
**GLYCERINE SUPPOSITORIES**  
**SUPPOSITORIES MEDICATED TO ANY FORMULA**  
**MEAT SUPPOSITORIES**

**WE ARE SPECIALT,** for GLYCERINE SUPPOSITORIES.

Child's 9d. Boxes 3 6 per doz. Adult's 1/- Boxes, 5/- per doz.  
Child's in Bulk, 2 6 per gross. Adult's in Bulk, 4/- per gross.

VARIOUS MEDICATED SUPPOSITORIES (see 22 forms in NEW LIST). 7d. doz., 6/- per gross.  
URETHRAL BOUGIES, 1/4 doz. OBEYNE'S BOUGIES, 1 9 doz.  
CACHETS and COM-PRESSED TABLETS.

**PESSARIES**  
(VAGINAL).



No. 26. — QUININE (Soluble). French Shape, guaranteed to contain 3 grains Soluble Quinine in each Pessary, 1 doz. in box, 8/- per dozen boxes.  
VARIOUS MEDICATED PESSARIES (see 27 forms in NEW LIST). Made of Cacao Butter or Gelatine, and supplied in boxes containing 1 dozen of a kind at 1/4 a box.

**HIGHEST QUALITY. LOWEST PRICE.**  
**BEST FINISH. FULL STRENGTH.**  
**PEARL or SWEET-COATED, any Colour**  
(Varnished, Silvered, or Black Polished).

We supply a 50-gross Selection (Minimum 10 gross) at 50-gross rates.

**ALL NET CASH WITH ORDER.**

| No.   | FORMULA.                       | 10 gr.  | 50 gr.  | No.                        | FORMULA.                    | 10 gr.  | 50 gr.  |
|-------|--------------------------------|---------|---------|----------------------------|-----------------------------|---------|---------|
| 533.  | Pil. Aper. c. vel sine Calomel | 3 1/2d. | 3d.     | 8.                         | Pil. Coloc. Co...           | 9d.     | 8d.     |
| 43.   | " Chamomile                    | 5d.     | 4 1/2d. | 109.                       | " Ferri (Bland)             | 2 1/2d. | 2 1/2d. |
| 997.  | " Dandelion...                 | 4 1/2d. | 4d.     | 13.                        | " Hydrarg. ..               | 4d.     | 3 1/2d. |
| 476.  | " Gout and Rheumatic           | 7d.     | 6d.     | 127.                       | " Hyd. c. Rhei              | 4 1/2d. | 4d.     |
| 192.  | " Podoph. Co.                  | 9d.     | 8 1/2d. | 14.                        | " Hyd. Subchlor. Co.        | 5d.     | 4 1/2d. |
| A.    | " Digestive                    | 4 1/2d. | 4d.     | 15.                        | " Ipecac. c.                | 4d.     | 3 1/2d. |
| 217.  | " Rhei et Ricini ..            | 3 1/2d. | 3d.     | 17.                        | " Scilla ..                 | 4d.     | 3 1/2d. |
| 2.    | " Aloe et Asa-fet.             | 3 1/2d. | 3d.     | 19.                        | " Scilla Co. ..             | 3 1/2d. | 3d.     |
| 3.    | " Aloe et Ferri                | 3 1/2d. | 3d.     | <b>Little Pill Series.</b> |                             |         |         |
| 1150. | " Aloe et Ferri c. Pulgii ..   | 3 1/2d. | 3d.     | 68.                        | Little Liver Pills          | 3d.     | 2 1/2d. |
| 6.    | " Asa-fet. Co.                 | 3 1/2d. | 3d.     | 412.                       | Little Cough Pills          | 4d.     | 3d.     |
| 9.    | " Coloc. et Hy-oecy. ..        | 10d.    | 9d.     | 400.                       | Little Antibilious Pills .. | 4d.     | 3d.     |

All Carriage Paid in Great Britain. Tins and Packages Free.

**WAND, Pill Factory, LEICESTER.**

WE SAVE YOU FROM 50% TO 100%

**WAND'S**  
**PEARL COATED**  
**SOLUBLE**  
**PILLS**

SPECIAL CLOSE PRICES TO LARGE BUYERS.



# SCHERING'S PURE FORMALIN

CLEAN, EFFECTIVE, NON-POISONOUS

**Most Powerful Disinfectant & Deodorant**

Awarded the BRONZE MEDAL at the Sanitary Exhibition at Leeds, 1897, and Birmingham, 1898.

## SCHERING'S GLUTOL

(According to Dr. Schleich.)

A New Form of Antiseptic Treatment of wounds. GLUTOL is a fine, antiseptic powder, forming a firm scab within a short space of time, and stopping acute purulent process by liberation of formalin vapour.

FOR LITERATURE APPLY TO

**THE FORMALIN HYGIENIC COMPANY, LIMITED**

9 & 10 ST. MARY-AT-HILL, LONDON, E.C.

GOLD MEDAL



## The NEW VAPORISER

AWARDED.

PATENTED

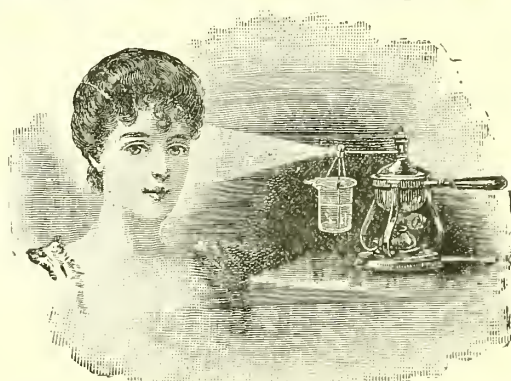
"OUR OWN."

(AND REGISTERED.)

*Patronised by Members of the Royal Family and the Elite of Society.*

Recommended by  
the Highest Medical  
Authorities.

On every Toilet Table,  
in every Nursery,  
in every Sick Room,  
this Vaporiser is  
Invaluable.



### RETAIL PRICES.

|                                         | PRICE |
|-----------------------------------------|-------|
| "OUR OWN," Nickel-plated                | 15/-  |
| "OUR OWN," Silver-plated                | 21/-  |
| "OUR OWN," Bronze, with Silver Fittings | 25/-  |
| <b>ALL ENGLISH MADE.</b>                |       |

It is the best means of obtaining and preserving a clear complexion, and is specially recommended for the self-administration of spray remedies in all diseases which affect the skin, throat, lungs, mouth, eyes, ears, and head.

|                    |                 |
|--------------------|-----------------|
| EAU DE LIS...      | 26 per bottle.  |
| "IO" LOTION        | 26 per bottle.  |
| LOTION DÉTERGENTE, | 3/6 per bottle. |

All three preparations are used in conjunction with the Vaporiser.

*The Electric Rouleau-Masseur and Battery complete, price £2 12s. 6d.*

PATENT ELECTRIC HAIR BRUSH, price 15s.

Wholesale and Retail Agents for all the Toilet Preparations and Perfumery of the **Société Hygienne, 55 rue de Rivoli, Paris.**

Pamphlets for Distribution, Carriage Paid. Write for Full Particulars from

**THE FRENCH HYGIENIC SOCIETY, 6 CONDUIT ST., REGENT ST., LONDON, W.**



# THE UNITED ALKALI CO., LTD.

## 30 JAMES STREET, LIVERPOOL.

### CHLORINE AS A DISINFECTANT.

**"CHLOROS,"** Hypochlorite of Soda, containing 10 per cent. available Chlorine.

The presence of 1 part "Chloros" in 100 parts of Sewage will entirely destroy all germs of Cholera, Typhoid, Diphtheria, Swine Fever, Glanders, and of many other diseases.

The presence of 1 part "Chloros" in 10,000 parts of ordinary Sewage will completely remove all smell.

**"CHLOROS"** is a liquid; it yields no insoluble residue, and cannot stop up drains.

**"CHLORIDE OF LIME,"** containing 35 per cent. available Chlorine.

*The Cheapest of True Disinfectants.*

**"SANITARY CHLORIDE OF LIME,"** containing 15 per cent. available Chlorine.

**"SANITARY CHLORIDE OF LIME"** is especially prepared for Sanitary purposes.

**"SANITARY CHLORIDE OF LIME"** does not become wet or sloppy on exposure to the air, and can be handled with impunity.

Sole Agents for "Chloros" & "Sanitary Chloride of Lime" to Chemists & Druggists in the United Kingdom

**Messrs. EVANS, SONS & CO., LIVERPOOL.**



## HEBDEN'S SILVER GLOSS

For LINEN.

A NOVELTY AND MARVEL!

*Gives Dazzling Smoothness to Linen, Shines like Silver.*

In 1d., 3d., and 6d. Blocks, of the following Wholesale Houses:—

London.—Maw, Son & Thompson; Bourne, Johnson & Latimer; May, Roberts; Newbery; Barclay; Edwards; Sangers; Suttons; Butler & Crispe; Lynch; Collett & Dodds; Potter & Clarke. Plymouth.—Jackson & Co. Coventry.—Wyleys (Limited). Ipswich.—Wiggin & Son. Birmingham.—Ed. Woolf. Hull.—Lofthouse & Saltmer. Thirsk.—Foggitt. Manchester.—Woolley & Sons; Oldfield & Pattinson; Heath Bros. Leeds.—Goodall, Backhouse. Liverpool.—Thompsons (Limited); Evans; Ayrton & Saunders. York.—Baines; Bleasdale. Newcastle.—Ismay. Glasgow.—Munro; McLaren. Dublin.—M. Woolf & Son. Belfast.—T. McMullan & Co. Cork.—Bible Bros. Limerick.—Boyd (Limited).

MANUFACTURED ONLY BY

**W. C. HEBDEN, Albany Works, YORKSHIRE. HALIFAX,**



**A powerful Disinfectant,  
Deodoriser, Insect Destroyer,  
and Air Purifier.**

## CAMPHORTAR

SOLD BY THE PRINCIPAL DRUG AND SUNDRY HOUSES.

HEBDEN'S

## CHLORIDE OF LIME

IN

**AIRTIGHT, ODOURLESS, WATERPROOF PACKETS**

Retains the Chlorine and keeps the Powder dry longer than any other packet.

4 oz., 8/- gross; 8 oz., 16/- gross; 16 oz., 30/- gross.

SOLD BY THE PRINCIPAL DRUG AND SUNDRY HOUSES  
Samples on application.

Manufactured only by

**W. C. HEBDEN, Albany Works, YORKSHIRE. HALIFAX,**



# KILLET'S WEED KILLER.

## A1 POWDER

FOR KILLING WEEDS  
ON  
GARDEN PATHS  
AND  
CARRIAGE DRIVES.

VERY SUITABLE FOR EXPORT.

THE MOST EFFECTIVE AND UP-TO-  
DATE WEED KILLER.

Retails at 2/-, 3/6, and 6/6 per tin.



IN ENAMELLED TINS  
FOR  
RETAIL ONLY  
BY  
QUALIFIED CHEMISTS.

NO RETURN EMPTIES.

BEST VALUE TO CONSUMER,  
AND FROM

25 to 30 per cent. profit for Retailer.

*Each tin contains a measure which holds just sufficient Powder to add to a bucketful (3 gallons) of water. Customers find this very handy, and much appreciate it.*

A 2/- Tin, as Sample, post free in the United Kingdom on receipt of P.O. 1/-  
SOLD BY ALL SUNDRY HOUSES. ATTRACTIVE HANDBILLS AND SHOWCARD SUPPLIED.

TERMS, TESTIMONIALS, AND ALL PARTICULARS OF

**KILLET'S CHEMICAL COMPANY, Underhill Street Works, BRIDGNORTH, SHROPSHIRE.**

## THE "ACME" WEED KILLERS

Have now a large sale through CHEMISTS, and early application should be made for Illustrated Counter Bills and Show Cards.



### POWDER WEED KILLER.

Packed in small decorated tins.  
Immediately soluble in cold water.

All tins Free.  
No return empties.  
Specially adapted for Export.

### LIQUID WEED KILLER.

Strength: 1 gall. sufficient for 25 galls. of water.

### DOUBLE STRENGTH.

1 gall. sufficient for 50 galls. of water.

Liberal terms to the Trade.

Particulars on Application.

### GENUINE KENTISH COMPRESSED HOPS.

In 1-lb. and ½-lb. packets, with directions for making Hop Ale, Hop Bitters, &c.

Also best Kentish Hops in bulk.

QUASSIA CHIPS, QUASSIA CUPS, &c.

SOLE PROPRIETORS AND MANUFACTURERS—

**THE ACME CHEMICAL COMPANY, LIM.**

**TONBRIDGE, KENT,**

And **CARLTON ST., BOLTON, LANCASHIRE.**

## CONCENTRATED SIZE,

IN

1-lb., ½-lb., and ¼-lb.

Packets

AND

¼-cwt. CASES.

## FINE

## PALE

## GLUES

AND

## GELATINES.

**SAM'L. MEGGITT & SONS, LTD.**  
SUTTON-IN-ASHFIELD.





**CAUTION !****"YORKSHIRE RELISH."**

IN THE HIGH COURT OF JUSTICE

CHANCERY DIVISION.

WILLIAM POWELL (trading as Goodall, Backhouse &amp; Co.)

**MAY & CO.**

NOTICE is hereby given that on the 24th day of February, 1899, the Hon. Mr. JUSTICE KEKEWICH ordered that the Defendants their servants and agents be restrained until judgment in this Action or further order from in any manner using or applying the words "YORKSHIRE SAUCE" or "YORKSHIRE RELISH" as descriptive of or in connection with or in respect of any Sauce or Relish manufactured by them or not manufactured by the Plaintiff without clearly distinguishing such Sauce or Relish from the Sauce or Relish of the Plaintiff And from describing any such Sauce or Relish as aforesaid as "THE ORIGINAL YORKSHIRE" SAUCE OR RELISH and from selling or offering or exposing or advertising for sale or procuring to be sold any such Sauce or Relish as aforesaid under labels or wrappers or enclosures or otherwise to be calculated to represent or lead to the belief that such Sauce or Relish is the Sauce or Relish of the Plaintiff and from selling or supplying any such Sauce or Relish as aforesaid in response to orders for "YORKSHIRE RELISH" or for the Sauce or Relish of the Plaintiff and from in any manner aforesaid or in any other manner passing off or enabling or assisting others to pass off any such Sauce or Relish as aforesaid as or for the Sauce or Relish of the Plaintiff.

Dated this 9th day of March, 1899.

J. SEYMOUR SALAMAN,

65 &amp; 66 Chancery Lane, London,

Solicitor for

Messrs. GOODALL, BACKHOUSE & Co.,  
Leeds, Yorkshire.

**for TINS of all kinds**  
Write to **SHIRLEY BROTHERS**  
**& SAVE MONEY!**

Stock Designs Plain & Decorated also  
Special Designs Produced.

Tins for Ointment Vaseline Tooth Powder  
Health Salines Citrate of Magnesia  
Insect Powder Horse Powders Carbolic  
Baking Powder Coffee Mustard Polishes  
Cachous Beads etc.

**WHITECROSS WORKS LONDON S.E.**

*Proved Products of 170 years' reputation.*

**FRY'S**  
**COCOAS & CHOCOLATES.**

*Price Lists, &c., on application.*

TELEGRAPHIC ADDRESSES—  
"FRY, BRISTOL." "FRYSON, LONDON."

**250 GOLD MEDALS AND DIPLOMAS.**

**"A CAPITAL IDEA"!!**

Said friend JONES, the GO-AHEAD CHEMIST. "I'VE DOUBLED MY TRADE last year since I commenced packing all my customers' prescriptions in Glover's small wood boxes."

**And JONES CHUCKLED!!**

**WOODEN BOXES**  
ALL SIZES  
MADE TO ORDER

TRADE MARK

PRICE 16/-  
per doz. nests of 6  
Boxes, planed and hinged,  
from 5" x 2 1/2" x 1 1/2" to  
9 1/2" x 6 1/2" x 4 1/2". Nests of 6 for Bottles,  
4 oz. to 16 oz., at same price. Single nest, 1/6.  
*Special Terms for Large Quantities to Shippers.*

**"CAPITAL, INDEED"!!!**

Said the Colonial Shipper. "Those light nested boxes, shipped in cases (each containing 4-gross nests), are just what is wanted, and I am getting repeat orders doubled. We are all indebted to the Makers, Messrs. C. H. GLOVER & CO., London Boxworks and Sawmills, HATCHAM, LONDON, S.E."!!

**LIME JUICE AND**  
**LIME JUICE CORDIALS.**

Large buyers are advised to send particulars of their requirements to  
**IDRIS & CO., Ltd., Pratt Street, CAMDEN TOWN, N.W.**

**SPONGE IMPORTERS.**

**M. PETERSON & CO.**  
**6 HOUNDSDITCH, LONDON.**

FOR HOME, FOREIGN, &amp; COLONIAL MARKETS

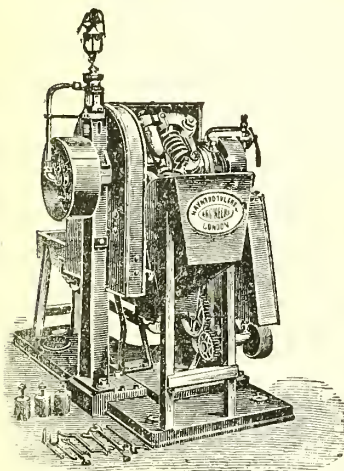


# HAYWARD-TYLER & CO.

AWARDED FOR

## AERATED WATER MACHINERY

FOUR GOLD MEDALS.



Revolver for Ball Stoppers.

Telegrams—"Tylerox."



Patent Tube Filler.

Telephone No. 192. [4]

90, 92 WHITECROSS STREET E.C.

# HAWKSLEY'S

PATENT

## MILK STERILIZERS (4 kinds).

"Not the least of their many good points is the readiness with which people . . . learn to use these Sterilizers. The credit must be assigned to the simplicity of the apparatus."

SEND FOR ILLUSTRATED PAMPHLETS.

No. 1. Price, in Box with EXTRA Bottle, 1 pint, 10 6; 1½ pint, 12 6.

No. 2. Price, in Box of 2 bottle apparatus, with Spirit Stove and extra bottle, £1 5s.

No. 3. Price, in Box with Food Warmer and Brush, 7 bottles, 15-; 10 bottles, 21-.

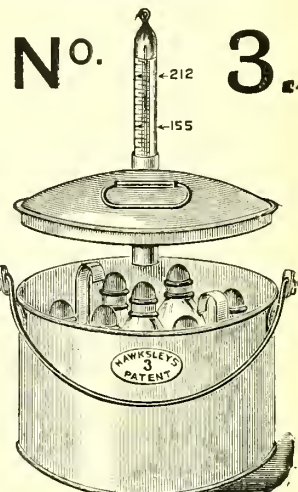
No. 3. With Trivet and Spirit Lamp, 3/- and 3 6 extra. No. 3 is a modification of Dr. Budin's method of feeding Infants, suggested in the *British Medical Journal*, Dec. 7th, where each dose of food is in a separate bottle. One operation being sufficient for one day's consumption.

No. 4. Same arrangement as No. 3, but with larger (8-oz) bottle for vigorous feeders. Price £1 1s.

See Winter Number, page 99.

May be had through any Wholesale House or direct from Sole Maker and Patentee—

**HAWKSLEY, SURGICAL INSTRUMENT MAKER,**  
357 OXFORD ST., W.



# van Houten's Cocoa

Report by A. H. ALLEN, Esq., F.I.C., F.C.S.:—"Perfectly Pure." "Highly Concentrated." "Greatly increased solubility and digestibility."



# TOWER TEA.

The Best and the Cheapest in the World at the Price.

In ¼, ½, and 1-lb. Packets only, to Retail at 1/-, 1/2, 1/4, 1/8, 1/7, 1/8, 1/10, 2/-, 2/4, 2/8 per lb. Also in Handsome 1-lb., 3-lb., and 5-lb. Decorated Tins, to Retail at 1/10, 2/-, and 2/4 per lb.

Agents appointed by

**TOWER TEA, LIMITED, 5 JEWRY STREET, LONDON, E.C.**

"Undoubted Purity and Strength."—*Medical Magazine*.  
 "In the Front Rank of really valuable Foods."—*Lancet*.



**Favoured by the Homes & Hospitals  
 of Great Britain.**

## CHEMISTS

Who stock "FRAME FOOD" DIET and "FRAME FOOD" JELLY, but obtain their supplies through the Wholesale Houses, are requested to send their address to the FRAME FOOD CO. (LTD.) for insertion in the Company's List of Retailers.

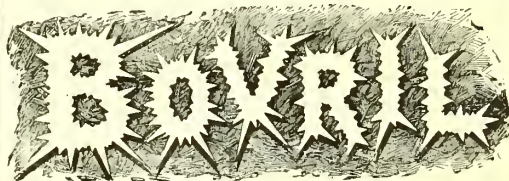
The FRAME FOOD CO. will then refer applicants for free samples (many thousands of which applications they receive) to such retailers for further supplies of F. F. Diet or Jelly.

**SHOWCARDS, and Leaflets with Retailer's Address printed in red, sent free on application.**

*Mention this Paper.*

**FRAME FOOD CO. LD.**  
 BATTERSEA, LONDON, S.W.

**TO STOCK IT IS TO SELL IT.**



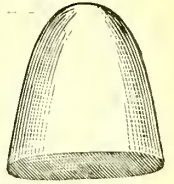
Chemists not yet fully stocked will learn with interest that the advertising of Bovril during the winter months will be conducted on very extensive lines, and a greatly increased business should naturally ensue.

**BOVRIL LIMITED** FOOD SPECIALISTS & HOSPITAL PURVEYORS LONDON



# RENDELL'S

"WIFE'S FRIEND" SOLUBLE QUININE PESSARIES.




## IMPORTANT NOTICE AND CAUTION

Several Injunctions in the High Court of Justice having already been obtained against "Infringers" (reports of which have appeared in "The Chemist and Druggist," the most recent being in issues of April 24 and May 29, 1897, and March 19, 1898), W. J. RENDELL'S SOLICITORS are instructed to take proceedings against all persons (Makers or Vendors) fraudulently using the name of "W. J. RENDELL," "RENDELL," or any colourable imitation thereof, in connection with Pessaries *not* manufactured by

# W. J. RENDELL,

Inventor and Sole Maker of the "WIFE'S FRIEND" SOLUBLE PESSARY,  
15 CHADWELL STREET, CLERKENWELL, LONDON, E.C.

See that the Registered Trade Mark and Number (but in red ink) are upon each box thus:—

Registered  
Trade Mark   
without which  
none are genuine.  
No. 182,688.

*W. J. Rendell*

Registered also in Australia, India, The Cape, The Argentine, Germany, &c.

# DAY, SON & HEWITT.

*Largest Makers in the World of*

## HORSE AND CATTLE MEDICINES.



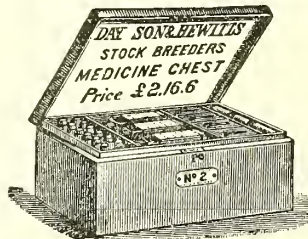
For Kicks, Outs, Bruises, Sore Withers, Swellings, Strains of Ligaments and Tendons, Saddle Galls, &c. It rapidly relieves Straining and Painful after Calving and Lambing, and is the remedy for Swollen Udders and Sore Teats.

Price 2/6, 3/6, and 7/- per Bottle.



For all Feverish Disorders among Cattle, Sheep, and Pigs, and for Colds, Indigestion, Costiveness, Yellows, Surfeits, Loss of Oud, Hide-bound, Red Water, &c. Admirably adapted for Cleansing and checking Feverish symptoms in Oows and Ewes after Parturition, rendering the milk copious, pure, and wholesome. It acts as a safe preventive of Milk Fever.

Price (Cows), 13/- per doz. Box ;  
(Ewes), 3/6 per doz. 3-doz. Box, 10/-



Complete in 3 sizes. Sent Carriage Paid.

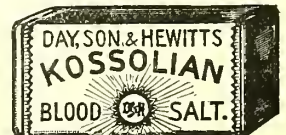
Prices—

£6 6s., £2 16s. 6d., and £1 8s. 9d.



A sure remedy for the Fret, Colic, or Gripes, Influenza, Loss of Appetite in Horses. For Debility, Scour, or Diarrhoea in Horses, Cattle, and Sheep. Hoven or Blown Cattle and Sheep instantaneously relieved.

Price 1/9 per Bottle. 20/- per doz.



For Blood Disorders in Horses, Eczema, Surfeits, Nettle-rash, Ringworm, Itching, Ill-Condition, Off Appetite, Staring Coat, and Sluggishness. Invaluable for Sterility or Barrenness in Horses and Mares, by virtue of its Phosphoric and other stimulating ingredients. Contains no injurious drug, and can be given at all times to all breeds of horses without stopping their work.

Price 5/6 per doz. Packets. 3-doz. 15/-  
Sold also at reduced rates in Tins 10/6 and £1 each.

Liberal Discounts to Agents  
and Foreign Buyers.

Trade Terms and full particulars  
on application.

Attractive Showcards and Handbills  
sent with each order.

Royal Animal Medicine Manufactory, 22 DORSET STREET LONDON, W. [Established 1833.]

 **£100** 

FOR A

# **Belladonna Plaster Test**

**I**T has come to our knowledge that certain manufacturers have placed upon the market Belladonna Plasters which are made to show a high test for alkaloids, but which it is openly stated are not made of Belladonna, but of other drugs. (See Proceedings A.P.A., 1890, page 155, also "American Journal of Pharmacy," April, 1898, page 182). We are also in possession of facts that tend to show that Plasters made strictly in accordance with the Pharmacopœia, containing a proper portion of extract of Belladonna, from the Laboratories of the most reputable Pharmacists in the world, such as Allen & Son, London; E. R. Squibb & Sons; and Parke, Davis & Co., are condemned by certain analysts as being below the Pharmacopœial Standard.

We are also aware that Belladonna Plasters containing little or no Belladonna, but, stuffed with alkaloids for show assay, are accepted as conforming to the Pharmacopœia. We are also aware of the many difficulties and the lack of uniformity in the chemical assay of Belladonna Plasters, especially in Rubber Compound. (A recent published report of an assay by several analysts shows a variation of several hundred per cent. as applied to the **SAME SAMPLE OF BELLADONNA PLASTER.**)

In view of the uncertainty and unreliability of chemical tests commonly applied to Belladonna Plasters, and in view of the fact that they are of little value to the druggist or physician, who is unable to verify or disprove them, we are led to make the following offer:—

We will pay **£100** for the best process of testing Belladonna Plasters, adapted to the use of the druggist and physician possessed of ordinary intelligence and faculties, which will show:

- (1) Whether a given sample of Belladonna Plaster is made of **BELLADONNA**, or is compounded from some other drug or drugs, or filled with mydriatic alkaloids for assays or other purposes.
- (2) Whether, or not a given sample of Belladonna Plaster conforms to the Pharmacopœial requirements.

In other words, a process which will enable any buyer or prescriber to judge of the reliability of the Belladonna Plasters on the market.

Further details and information as to this award will be made upon application. The award will be made by a committee of Pharmaceutical and Medical Authorities to be hereafter named.

Johnson's Belladonna Plaster is made of **BELLADONNA**; it conforms in strength of drug to the British Pharmacopœia, 1898.

We are desirous of securing a process that can easily be applied, and that will convince buyers of Belladonna Plasters of the accuracy of this statement.

## **JOHNSON & JOHNSON,**

**NEW BRUNSWICK, N.J., U.S.A.**

Address Correspondence,

**JOHN TIMPSON & CO., 104 Golden Lane, E.C.**

SOLE AGENTS FOR GREAT BRITAIN, THE COLONIES, AND THE CONTINENT OF EUROPE.



# THE SURGEON'S LINT,

**V.B. QUALITY.**

The superior quality of Newsome's Absorbent Surgeons' Lint is universally admitted. The V.B. quality is quite pure and of great superficial area and exquisite softness. The C., D., E., and F. qualities are equally pure and absorbent; E. is stronger in fabric.

**NEWSOME'S BLEACHED ROLLED BANDAGES, 3 in., 2½ in., 2 in. Also SURGICAL ABSORBENT OPEN BANDAGES.**

Specialty Bleached and Grey Carded Cotton Wools, Absorbent & Bleached & Grey Waddings; also Sheet Waddings, Tow, &c.

THE TRADE SUPPLIED THROUGH THE LONDON AND PROVINCIAL WHOLESALE HOUSES, OR FROM

**C. NEWSOME,** MANUFACTURER, BEEHIVE MILLS, ANCOATS, MANCHESTER.

London Agents—B. PRATT & CO., 1 Wood Street, E.C.

Telegraphic Address—"Newsome Ancoats Manchester."

## WOODRUFF'S CELLULOID SPRAY APPARATUS FOR THE NOSE AND THROAT.

PATENTED IN ENGLAND AND ABROAD.

WRITE FOR PARTICULARS TO **T. WOODRUFF, Ph.C., WITHINGTON, MANCHESTER.**

## POISON BOTTLES.



**Very Distinctive. Superior Make. Vitrified Labels.**

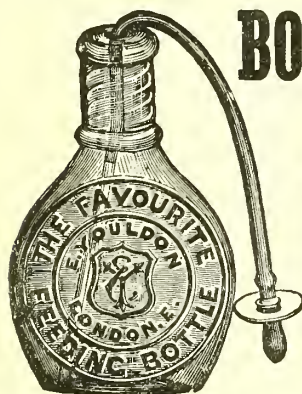
Dark blue with horizontal ribs, with **raised** white enamelled vitrified letters on polished ground, and the word "POISON" in red letters on the lower part of the bottle. This style of lettering is the chief feature of these bottles, and thoroughly distinguishes them from all other Shop Bottles, the lettering making itself felt by the mere touch.



PRICE LIST AND LIST OF LABELS SENT ON APPLICATION.

**H. POTHS & CO., 4, 5, & 6 Bury Court, St. Mary Axe, LONDON, E.C.**

## BOTTLES FOR ALL REQUIREMENTS



*Trial Orders and enquiries solicited by*

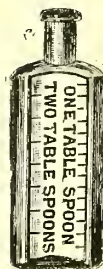
**E. YOULDON,**

ESTABLISHED 1840.

East London Glass Bottle Warehouse,

36, 38 & 40 GREAT GARDEN ST., WHITECHAPEL, LONDON, E.

Telegraphic Address—"YOULDON LONDON."

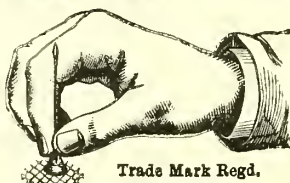


## THE ASSOCIATION FOR THE SUPPLY OF PURE VACCINE LYMPH

(ESTABLISHED 1877).

12 PALL MALL EAST,  
LONDON, S.W.

**CALF and HUMAN.**



Telegraphic Address—

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Office Hours—

10 till 4. Saturdays, 10 till 2.

**Pure and Reliable.**

GLYCERINATED PURE CALF VACCINE was first introduced in England in 1882, and since that date no other preparation has been sold by this Association. Its use in S.V. tubes, with an ANTISEPTIC INJECTOR is now required by the Local Government Board. See Instruction to Public Vaccinators, 19th October, 1898.

SINGLE VACCINATION (S.V.) TUBES, 6d. each.

TUBES, 1/6, and HALF-TUBES, 1/- each.

PIN POINTS, 1/- per doz.

VACCINE ANTISEPTIC EJECTORS, 1/3.

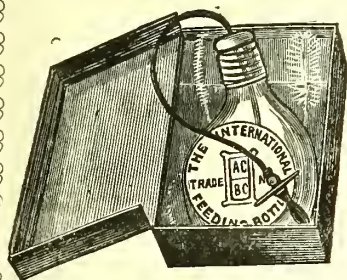
VACCINATORS which remove the cuticle without drawing blood, 5/-, post free.

HUMAN VACCINE from healthy children only, microscopically examined and source quoted. Tubes two-thirds full, 1/3 each; one-third full, 1/- each—

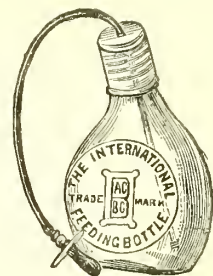
Special quotations for quantities.

P.O.O. (including postage, and crossed London and Westminster Bank) with orders payable to EDWARD DARKE, Secretary.





# "The International" FEEDERS



## REDUCED PRICES.

BLACK RUBBERS. GLASS UNIONS. SEAMLESS TEATS. EACH IN PAPER BAG.

93. GREEN BOTTLE, Screw Glass Stopper, **25/-** gross. | 95. GREEN BOTTLE, Box Top Cork ... **24/-** gross.  
94. WHITE " " " " **27/-** " | 96. WHITE " " " " **26/-** "

ILLUSTRATED PRICE LISTS FREE ON APPLICATION.

### STOPPERED ROUNDS. Cut Globe Head Stoppers.

|      | 1   | 2   | 4   | 8   | 16  | 20  | 30  | 47 oz.       |
|------|-----|-----|-----|-----|-----|-----|-----|--------------|
| N.M. | 2/2 | 2/3 | 2/8 | 3/6 | 4/6 | 5 - | 5/9 | 6/6 Per doz. |

### Plain Globe Head Stoppers.

|      | 1    | 2   | 4   | 8   | 16  | 20  | 30  | 40 oz.       |
|------|------|-----|-----|-----|-----|-----|-----|--------------|
| N.M. | 1/8  | 1/9 | 2/2 | 3/- | 4/- | 4/6 | 5/3 | 6/- Per doz. |
| W.M. | 1/11 | 2/- | 2/5 | 3/3 | 4/6 | 5 - | 5/9 | 6/6 "        |

### COUGH MIXTURE FLATS. Panelled.

Pale Blue Tint.

|  | 1 1/4 | 2   | 2 1/2 | 3   | 4    | 5    | 6    | 8 oz.       |
|--|-------|-----|-------|-----|------|------|------|-------------|
|  | 6/-   | 7/- | 7/6   | 8/6 | 10/- | 11/- | 11/6 | 12 - P. gr. |

### LUNDBORGS.

|           |     | 1/2  | 1    | 1 1/2 | 2    | 3    | 4 oz.       |
|-----------|-----|------|------|-------|------|------|-------------|
| Plain ... | ... | 6/-  | 7/6  | 8/-   | 9 -  | 10/6 | 11/6 P. gr. |
| Stoppered | ... | 14/6 | 16/- | 17/-  | 18/- | 21 - | 22/- "      |

### WHITE METAL SCREW-CAP ROUNDS.

|  | 3/4 | 1    | 1 1/2 | 2    | 2 1/2 | 3    | 4    | 6 oz.       |
|--|-----|------|-------|------|-------|------|------|-------------|
|  | 9/6 | 11/- | 12/-  | 12/- | 14/-  | 14/6 | 15/6 | 16/- P. gr. |

### PANEL FLATS. White Flint.

|                       | 1    | 1 1/2 | 2    | 3    | 4    | 6    | 8    | 10   | 12   | 16   | 20 oz.      |
|-----------------------|------|-------|------|------|------|------|------|------|------|------|-------------|
| N.M., Plain,          | 6/-  | 7/-   | 8/-  | 10/- | 10/6 | 12/6 | 13/6 | 19 - | 21/6 | 26/- | 30/- P. gr. |
| Ground Glass Stoppers | 15/- | 16/-  | 17/- | 20/- | 20/6 | 25/- | 27 - | 32/6 | 35 - | 41/- | 48/- "      |

### GRADUATED MEASURES.

|  | 1/2 | 1   | 2   | 4   | 10   | 20   | 32   | 40 oz. |
|--|-----|-----|-----|-----|------|------|------|--------|
|  | 5/6 | 5/6 | 7/6 | 8/- | 10/6 | 13/6 | 16 - | 18/-   |

Bearing the Government Inspector's mark of verification.

### CHELTENHAMS. Pale Green or Pale Blue Tint.

|                                  | 1   | 2   | 3    | 4    | 6    | 8    | 10   | 12   | 16 oz.      |
|----------------------------------|-----|-----|------|------|------|------|------|------|-------------|
|                                  | 5/- | 6/- | 6/6  | 7/-  | 8/-  | 9 -  | 13 - | 15/- | 16/- P. gr. |
| Fitted Glass Stopper, Cork Rings | -   | -   | 10/- | 11/- | 12/- | 13 - | 18 - | 21/- | 21/6 "      |

HONEY JARS.

JAM JARS.

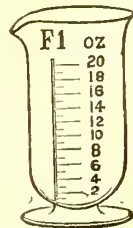
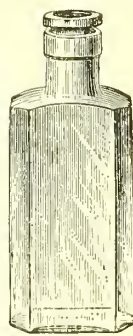
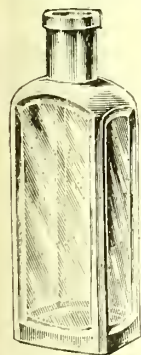
JELLY JARS.

# BREFFIT'S, LIMITED,

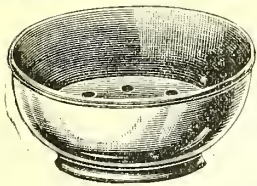
Telegrams:  
"Breffit's London."

**83 Upper Thames Street, LONDON.**

Telephone  
843 Bank.





**THE NEW SPONGE BOWL.**

Size— $5\frac{1}{2} \times 3$  in.,  
and  
 $4\frac{3}{4} \times 2\frac{1}{2}$  in.  
Price **24/-** doz.  
and **18/-** doz.,

*Special Prices for Wholesale Druggists  
and Shippers.*

**Specialities**

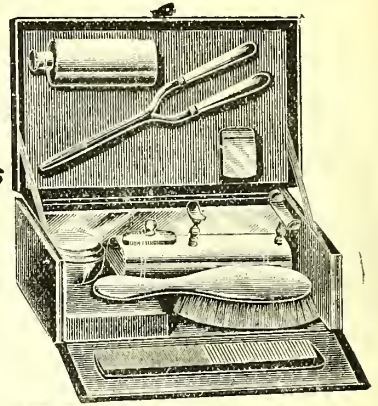
ALSO IN  
CURLING LAMPS,  
CURLING TONGS,  
PUFF BOXES,  
SOAP BOXES,  
SHAVING MUGS,  
SHAVING BRUSHES,  
&c.

*Samples sent carriage paid.*

**LADIES' GEM TOILET CASE.**

Price **12/6**  
each net.

Covered with  
American  
Leather, and  
lined inside  
with Plush.  
Fittings  
Nickel-plate,  
and Highly  
Finished.



FURTHER PARTICULARS BY APPLYING TO  
**VICTOR M. COOPER,**  
*Wholesale & Manufacturers' Agent,*  
9 St. Mary Axe, Leadenhall St., LONDON, E.C.

**DISPENSING BOTTLES.****THE NORTH LONDON GLASS BOTTLE COMPANY**

(I. ISAACS & CO., Proprietors)

Beg to inform the Trade that they have made a further reduction  
in the price of their Bottles, as follows:—

The NEW SHAPE FLAT BOTTLES, with rounded edges, plain  
or graduated—

|              |                |                |                 |
|--------------|----------------|----------------|-----------------|
| 3 & 4 oz. .. | 7/6 per gross. | 10 & 12 oz. .. | 12/- per gross. |
| 6 „ 8 „ ..   | 8/6 „          | 16 „ ..        | 16/- „          |

WHITE MOULDED PHIALS, plain or graduated Teaspoons—  
 $\frac{1}{2}$  oz. .. .. 3/6 per gross. |  $1\frac{1}{2}$  oz. .. .. 4/6 per gross.  
1 „ .. .. 3/9 „ | 2 „ .. .. 5/- „

**PLEASE NOTE.**

Six gross and upwards, assorted or otherwise, are carriage paid  
to any address in England; smaller quantities not carriage paid.

I. ISAACS & CO., Glass Bottle Manufacturers,  
106 MIDLAND ROAD ST. PANCRAS, LONDON.

*Established 50 years.*

*Bankers—London and Westminster Bank.*

**GERMOL****NEW AND POWERFUL DISINFECTING FLUID.**

(NON-POISONOUS.)

More Powerful than Carbolic Acid, and does not stain or  
burn in use.

“MICROBORT” FOR SURGICAL USE.

GERMOL SANITARY POWDER.

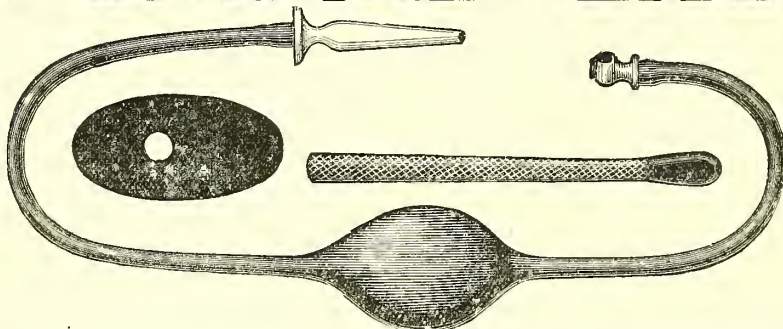
GERMOL SHEEP DIP. GERMOL SOAPS.

Samples and Particulars on application to the Sole Manufacturers—

**READ HOLLIDAY & SONS, LIMITED,**  
HUDDERSFIELD, ENGLAND, & NEW YORK, U.S.A.

**THE 'EMPIRE' ENEMA.**

**16/-**  
PLUS  
10%  
PER DOZ.  
UNPOLISHED.



**17/-**  
PLUS  
10%  
PER DOZ.  
POLISHED.

Although differing but little from other makes in outward appearance, this Enema has two important qualities never before  
combined except in high-priced Enemas—viz.,

**IT WILL NOT GET STICKY**

*in hot weather, and*

**IT WILL NOT GET HARD**

*in cold weather.*

**WE GUARANTEE THEM FOR TWO YEARS.**

We also supply Druggists' Sundries in great variety, Stockings, Hot-water Bottles, Combs, Sponge  
Bags, Syringes, Catheters, Trusses, Elastic and Waterproof Goods of all kinds.

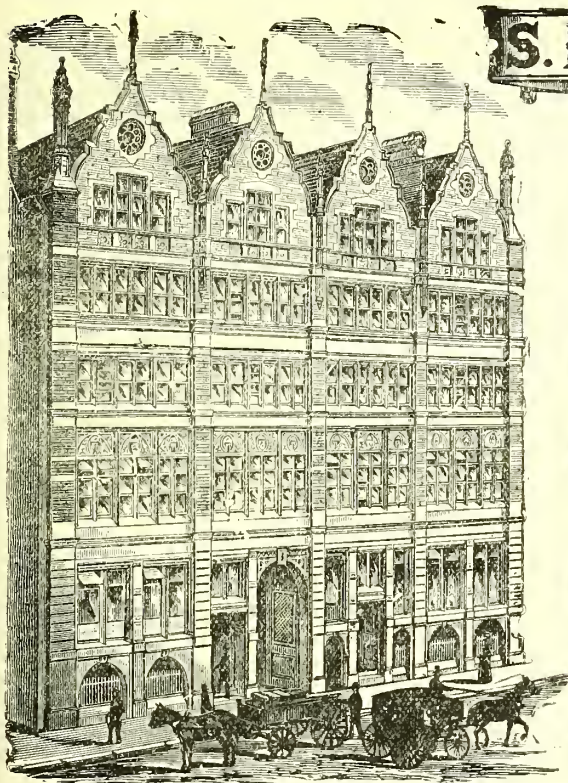
Owing to the continued advance in the price of Raw Rubber we are compelled to add the above advance of 10 per cent. to  
our prices for all Rubber Goods. This advance will be taken off directly the state of the Rubber Market will permit.

**OUR GOODS ARE RIGHT AND PRICES LOW.**

WRITE FOR ILLUSTRATED CATALOGUE—POST FREE.

**BURGE, WARREN & RIDGLEY, 91 & 92 Great Saffron Hill, LONDON, E.C.**





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**Price Current**



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**DRUGGISTS' SUNDRIES**

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**CORRESPONDENCE INVITED.**

# ABSORBENT LINT

*(Of Improved Qualities)*

**SAMPLES SENT POST FREE ON APPLICATION.**

**REDUCED PRICES.**

|                                                      | Per lb. |                            |   |   | Not less than 112 lbs.<br>each or assorted, per lb. |
|------------------------------------------------------|---------|----------------------------|---|---|-----------------------------------------------------|
| Maw's No. 11 Lint . . .                              | 1/2     | } 5 per cent. Monthly a/c. | . | . | 1/-                                                 |
| Maw's No. 1 Hospital . . .                           | 1/2     |                            | . | . | 1/-                                                 |
| Maw's No. 2 Hospital . . .                           | 1/4     |                            | . | . | 1/2                                                 |
| Maw's Superior Hospital . . .                        | 1/6     |                            | . | . | 1/4                                                 |
| Maw's Superior Surgeons' . . .                       | 1/8     |                            | . | . | 1/6                                                 |
| TAYLOR'S Super A1 Flax<br><i>Improved, Absorbent</i> | 3/-     |                            | . | . | 2/6                                                 |
| Ditto, in 1-oz. packages . . .                       | 3/6     |                            | . | . | 3/-                                                 |

**S. MAW, SON & THOMPSON,**

7 to 12 ALDERSGATE ST., LONDON, ENGLAND.



# THE BEST MARKET FOR CORKS

WE have had so many **repeat orders** and so many flattering reports from our friends with respect to Corks, that we are anxious every Chemist in the United Kingdom should at least sample our leading Brands, and we have therefore arranged to send orders of not less than £1 carriage paid, and, if Buyers are not satisfied with the value, they are at liberty to return them at our expense.

|                                                                                 | 6-gross | 50-gross            | 100-gross | 300-gross           |
|---------------------------------------------------------------------------------|---------|---------------------|-----------|---------------------|
| "MADRID," for 1-dr., 2-dr., $\frac{1}{2}$ -oz. Vials ... ..                     | 6d.     | 5 $\frac{1}{2}$ d.  | 5d.       | 4 $\frac{1}{2}$ d.  |
| "FARO," for $\frac{1}{2}$ -oz., 1-oz., 1 $\frac{1}{2}$ -oz., 2-oz. Vials ... .. | 7d.     | 6 $\frac{1}{2}$ d.  | 6d.       | 5 $\frac{1}{2}$ d.  |
| "LISBON," for 3-oz., 4-oz., 6-oz., 8-oz. Bottles ... ..                         | 7d.     | 6 $\frac{1}{2}$ d.  | 6d.       | 5 $\frac{1}{2}$ d.  |
| "CADIZ," for 6-oz., 8-oz., 10-oz., 12-oz. Bottles ... ..                        | 1s.     | 11 $\frac{1}{2}$ d. | 11d.      | 10 $\frac{1}{2}$ d. |
| GINGER BEERS X.X. ... ..                                                        | 7d.     | 6 $\frac{1}{2}$ d.  | 6d.       | 5 $\frac{1}{2}$ d.  |
| GINGER BEERS X.X.X. ... ..                                                      | 1s.     | 11 $\frac{1}{2}$ d. | 11d.      | 10 $\frac{1}{2}$ d. |

*In no instance can the Quantitative Prices be deviated from.*



**AYRTON & SAUNDERS,**  
34 HANOVER STREET,  
LIVERPOOL.

REGISTERED  
TRADE MARK

# VIMULE

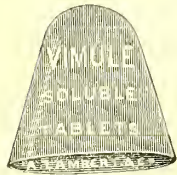
## SOLUBLE TABLETS

REGISTERED  
TRADE MARK

PREVIOUSLY ADVERTISED AS

**LAMBERT'S SOLUBLE QUININE TABLETS.**

PERFECTLY  
PREPARED.



ABSOLUTELY  
RELIABLE.  
SALE UPWARDS OF  
8,000,000.

These Tablets are manufactured by us of the best materials procurable. We guarantee every one to be of accurate proportions, and can with confidence recommend them to the trade as one of the best ever introduced.

They are packed in specially neat metal boxes of 1 doz., and sealed with our Registered Label, without which they are not genuine.

Our method of packing particularly adapts them for exportation. Being practically air-tight they will keep in perfect condition for a long period, and liability to injury by variation of climate is reduced to a minimum.

Advertised to retail at 2/- per box of 1 dozen. 5/- for three boxes. 9/6 for six boxes. 17/- for 12 boxes.

### Trade Price.

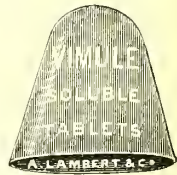
12/6 net per dozen boxes of 1 dozen each.

Single boxes 1/3, including postage.

Orders of  $\frac{1}{2}$  doz. boxes and upwards sent post free.

*Can be obtained through any wholesale house.*

PERFECTLY  
PREPARED.



TRADE PRICES  
MODERATE.  
SALE UPWARDS OF  
8,000,000.

**A. LAMBERT & CO.,** 16 DALSTON LANE, **LONDON, N.E.**

# SAFE DEPOSIT

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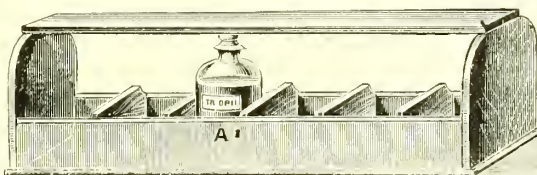
## FOR POISONS.

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Extract from "The Chemist and Druggist," February 25, 1899.

### SOUTHALL'S POISONS SAFE DEPOSIT.

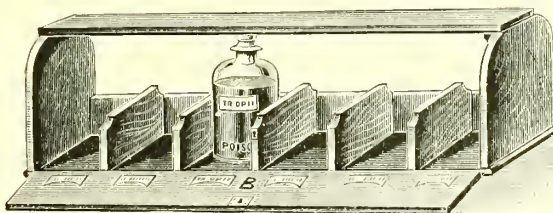
Messrs. Southall Brothers & Barclay (Limited), Birmingham, have devised a clever and simple scheme for keeping ordinary stock bottles containing poisons in a lock-up shelf



Prize

which will fully answer the purposes of a poison-cupboard. The shelf is shown in the engraving. A series of bottles is placed each in a separate compartment, and the whole shelf is locked up by the small hinged-flap barrier in front at the

Award.



bottom of the bottles. On turning the key this barrier falls down, and any of the bottles can be taken out. Special bottles are not required, and the labels are always exposed to view, though the poison-label, if at the bottom of the bottle, would not be seen when the shelf was locked.

## SOUTHALL BROTHERS & BARCLAY, LIM.

### BIRMINGHAM.

Chemists' Shop Fitters, Shop Front Builders, Fittings for Window Enclosures in Modern Styles and at moderate prices.  
Glass Shelves, Glass Mirrors, Shop Lamps, Sponge Cases, and Loose Fittings of every description.

*Estimates Free on receipt of Dimensions. Invitations to Tender receive prompt attention.*



# WESTMINSTER COLLEGE

## OF CHEMISTRY AND PHARMACY.

Principals: G. S. V. WILLS, F.L.S., M.P.S.;  
and H. WOOTTON, B.Sc.

### SPECIAL NOTICE.

Students are advised, in view of the stringent alterations in the Examination, which come into force after August next, to enter College as early as possible, so as to pass in July next.

**FEES:**—Complete Course, £8 8s.; 6 Months, £12 12s

**BOOKS FOR PRESCRIPTION READING.**—Wills's "Præscripta," post free, 10d.; Wills's "Guide to Prescription Reading," 1s. 3d.; Wills's "Book of Autograph Prescriptions," 1s. 3d., key to ditto, 1s. 3d.; Wills's "Doses of B.P., 1898," 4½d.; or the 5 books, post free, 4s. 9d.

## WILLS' POSTAL SYSTEM.

(Established a quarter of a century.)

**FEES.**—Apothecaries' and Minor, £1 1s.; Major and Preliminary, 10s. 6d. Apprentices and Assistants will find this course of systematic study the best for obtaining a groundwork in all subjects.

For Prospectus and Pass Lists apply to

**E. WALDEN, Secretary,**

Trinity Square, Borough, London, S.E.

## THE NORTH OF ENGLAND SCHOOL OF CHEMISTRY & PHARMACY,

55 NORTHUMBERLAND STREET,

### NEWCASTLE-UPON-TYNE.

Principal—Mr. F. R. DUDDERIDGE, Ph.C.

Medallist in Chemistry, Pharmacy, and Materia Medica at South London School of Pharmacy (Muter's) 1890-91.

The following gentlemen have recently qualified from this school, five of them at their first attempt:—

Messrs. T. Askew, Whitley; H. S. Davison, Rothbury; A. E. Foreman, Newcastle; W. Hepplewhite, Morpeth; G. T. Hogg, Medomsley; H. Park, Tynemouth; E. G. Power, Newcastle; J. N. Robinson, Redcar; E. T. Wilson, Backworth; J. F. Wootton, Thirsk.

PRESENT TERM COMMENCED ON APRIL 5.

## THE QUEENSBOROUGH COLLEGE OF CHEMISTRY, PHARMACY, &c.,

179 ALBERT ROAD, SOUTHSEA, PORTSMOUTH.

Principal—F. B. ELWELL, M.P.S. (Pharmaceutical Chemist).

**SPECIAL NOTICE.**—This is the only College having Four Courses in the year, corresponding to the Quarterly Examinations held by the Pharmaceutical Society. Each Course begins on the First Monday of January, April, July, or October, and lasts twelve weeks. The Courses are thorough and complete, the Principal attending personally to the Students. Owing to Bank Holiday coming on Monday, April 3, the next Full Time Course will begin on Tuesday, April 4. Early application for benches is advisable, as most of them are already engaged.

| FEES (payable in advance):                                                     |       | £ | s. | d. |
|--------------------------------------------------------------------------------|-------|---|----|----|
| For a Full Course of Twelve weeks<br>(This Fee includes Books, Apparatus, &c.) | .. .. | 8 | 8  | 0  |
| For each additional Full Course                                                | .. .. | 4 | 4  | 0  |
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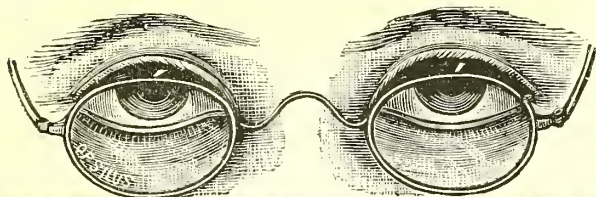
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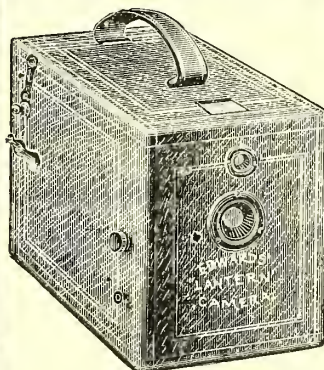
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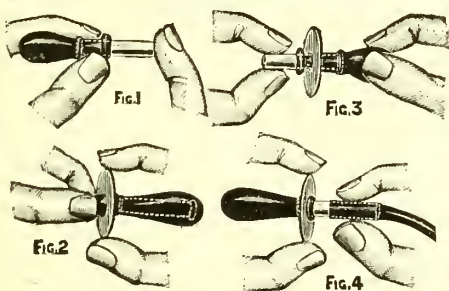
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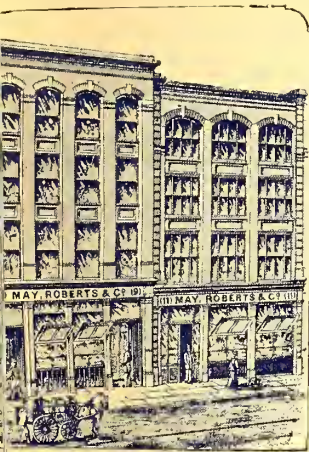
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Fig. 2.



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